

CLIMATOLOGY OF INSTANTANEOUS PRECIPITATION RATES

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ABSTRACT

Nearly instantaneous precipitation rates have been calculated for existing data from several locations and for records collected specifically for this project. Point frequencies of occurrence of 1-minute rates have been derived and are tabulated by months for one year of data from Preston and Reading, England; for two years of data from Paris, France; and for three years of data from Urbana, Illinois. Frequencies of 4-minute rates are tabulated for a year of data each from Albuquerque, New Mexico; Bismarck, North Dakota; Seattle, Washington; Bet Dagan, Israel; Koblenz, Germany; and Freiburg, Germany. Four-minute frequencies for two years of data from Naha, Okinawa, are tabulated.

Frequencies of 2-minute average rates along lines have been tabulated for lines of raingages up to 39 miles in length in central Illinois. The frequencies of occurrence of maximum rates along these lines are also included.

Tables showing probabilities of duration of various precipitation rates are presented for five locations.

Tables showing the effects of the length of the period of measurement on the rate frequencies in Florida and Illinois are also included.

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INTRODUCTION

The purpose of this 15-month research project has been to continue research aimed at defining the frequencies of occurrence of instantaneous rainfall rates for a wide variety of rain climates of the world. This was to be done for both point locations and for average rates along lines. The first 3 years of research (under AFRL Contract No. F19628-69-C-0070) and results on this project are described elsewhere (Jones and Sims, 1971), and this report covers a 15-month extension of the research aimed at enlarging the data sample.

Such rainfall data are useful when selecting microwave frequencies and power levels for radars, ground and satellite communication systems, etc. These data are also important in the design of supersonic vehicles, since the rate of erosion of the vehicles by precipitation particles is related directly to rainfall rates.

Knowledge of the amount of precipitation that fell in a 6-hour period tells little about how rainfall rates were distributed within that period. High rates lasting for short times are lost in the relatively long-period rainfall amounts, and these can only be detected in short periods (minutes).

Early in this 4-year study it was determined that a 1-minute interval was about as short a period for which a rainfall rate could be obtained from raingages with a reasonable degree of confidence. Such a 1-minute rate could only be ascertained from expanded time-scale records, either those available or those gathered from special installations to serve the goals of this program. Therefore, 1-minute rates have been calculated for locales where such data existed or were collected, and these are defined to be "instantaneous" rates. There are some indications that if rates could be accurately determined for periods of less than one minute, the frequencies of these rates *would not be* significantly different than the frequencies of the 1-minute rates. For data obtained from gages with time scales insufficiently expanded for 1-minute rates, 4-minute rates have been calculated.

INSTRUMENTATION

The data used in this study consisted of raingage charts from gages operated by the Water Survey here in Illinois, and the microfilm records from gages in Europe, Israel, and Okinawa. The Illinois data includes that from two lines of gages in rural central Illinois and that from a single gage operated in Urbana. Microfilm records analyzed included those from Reading and Preston in England, from Freiburg in West Germany, from Bet Dagan in Israel, from the Montsouris Observatory in Paris, France, and

from Naha, Okinawa. Paper copies of charts from Koblenz, Germany, were analyzed. Other records analyzed were for Albuquerque, New Mexico; Bismarck, North Dakota; and for Seattle, Washington.

The gages operated by the Water Survey were all of the same type, a weighing-bucket precipitation gage used by the National Weather Service since 1945. It is a Fergusson-type gage, manufactured by Bendix-Friez as its Model No. 775-C and by Instruments Corporation as their Model No. 5-780. As used in the collection of these data, this gage was equipped with a 12.64-8-inch diameter receiver which drained through a 5/16-inch diameter hole into the bucket. Recording was on an 11.5-inch long chart on a clock cylinder geared to rotate once each 6 hours. Precipitation was recorded on a vertical scale from 0 to 2.40 inches with a single upward traverse of the chart, at which point reversal occurred and another 2.40 inches of precipitation was recorded with a downward traverse. On the charts from this gage, 1 minute is equivalent to 0.8 mm of chart travel, and 2.5 mm of chart height is equivalent to 1.0 mm of precipitation.

The National Weather Service gages at Albuquerque, Seattle, and Bismarck were of a similar type except that they were geared for 24-hour chart rotation. Also, they had 8-inch diameter receivers, and therefore recorded 6 inches of rain on a single 6-inch traverse of the chart. The Bismarck gage had a weighing mechanism which produced a full traverse of the chart for 2.4 inches of precipitation, but it also had an 8-inch diameter receiver.

The siphoning float raingage at the Montsouris Observatory in Paris, France, recorded on a rectilinear chart on a cylinder which made a turn each 2 hours. On the abscissa of the charts from this gage, 1 minute is represented by 2.5 mm and on the ordinate, 1 mm of rain is represented by a length of 7 mm. During the daytime, the trace was raised on the chart every 3 hours by adding water to the gage corresponding to 0.5 mm of rain. This separated the traces for easy, accurate measurement. This gage also had an electro-mechanical device which assured rapid, definite siphoning. This device, and the rest of the gage, worked very satisfactorily. During the 2 years of data obtained, there were no missing records for any cause.

The siphoning float gage at Bet Dagan, Israel operated with the chart cylinder turning once per 24 hours. On the abscissa, 20 mm of rain were indicated on the rectilinear chart between siphonings. The charts were changed daily, so only a single trace is recorded on each chart.

The gages at Preston and Reading, England, were both of the same type. These were Dines Tilting-Siphon Rain Recorders, fitted with open-scale strip chart mechanisms in place of the standard daily cylinder. The chart drive was electrically driven by an a-c motor. The chart was driven at a speed of 5-1/2 inches of chart per hour. This gives excellent time resolution. The gage was fitted with an 11.31-inch diameter collector, and 10 mm of chart was covered for 1 mm of rain.

The gages at the two German locations were similar Hellman-Fuess syphoning float-type gages. They were operated with 24-hour charts, with 1 hour being represented by about 15 mm of chart. The traces were raised on the chart each day, making them quite convenient for measuring, even though the gages were operated for several days with each chart. The vertical scale of the rectilinear chart represented 10 mm of rainfall between siphonings.

The charts for Naha, Okinawa, were also from a syphoning float-type gage using 24-hour charts. The abscissa showed 20 mm of precipitation between siphonings. Data were also received for 1968 and 1969; however, these charts were from an incremental gage, probably a tipping-bucket type, which produced a step on the trace for each 0.5 mm of rain. Since these records were not deemed suitable for accurate rain rate frequencies, only the 1966 and 1967 data were analyzed.

GENERAL ANALYTICAL PROCEDURES

Although variations in the analytical procedure have been necessary because of the different forms of the original data, basically similar procedures have been used for much of the data. Cumulative frequency distributions of precipitation rates have been prepared for each location. These appear in Tables 1 through 55 of the Appendix.

The first step in the analysis was to digitize the records. Where original raingage charts were used, this digitization was done on an Auto-trol Model 3200 digitizer. This equipment measured the chart trace to the nearest one-thousandth of an inch on both X and Y axes. The coordinates of each measured point were punched semi-automatically into punch cards.

Another digitizer, the OSCAR Model F, was used for all records on microfilm, since it has a projector that permits measurement from an enlarged projected image. The scales on this equipment are variable, and were adjusted to permit the highest accuracy permitted by the size of the projected image. Although the precision of the measurements for this equipment is generally slightly less than for those from the Auto-trol, it is believed to be adequate.

The digitized data on punch cards were then processed by computer. Various routine corrections were made for the tilt of the chart on the digitizer and to rectify the curvilinear scales of some of the charts. Then rates were calculated from the corrected measured points. Linear interpolation was made between the measured points. Precipitation rates were calculated for each 1-minute clock interval during precipitation periods for data from France, England, and for Urbana, Illinois. For the other microfilmed records, only 4-minute rates have been calculated, since the scale of the gages used for these records was not good enough to permit accurate 1-minute rate measurements.

In all cases, the precipitation rates were expressed in units of mm/min. These rates can, of course, be converted to the more familiar units of mm/hr by a multiplication by 60, or to in/hr by a multiplication by a factor of 60/25.4 or 2.36.

The computer then counted the rate calculations within each class interval. The class intervals were set up on a logarithmic basis, with 10 intervals to each decade, or order of magnitude, of the rates. Generally, all rates of less than 0.0042 mm/min (or 0.01 in/hr) were considered to be no rain, so the threshold of the lowest class interval was set at 0.0042 mm/min. The distribution of rates was then summed to produce a cumulative distribution, which was divided by the number of minutes of useable gage operations in the sample to get a cumulative frequency distribution in terms of the percent of time that the rate equalled or exceeded the indicated threshold rate. It is important to understand that these frequencies are not just of rain time, but are frequencies of all time in the month or year. The percentage corresponding to a threshold rate of 0.0042 mm/min is a good indication of the percent of time that it rains at all.

Both the rates and percentages on the tables are expressed in the computer equivalent of "scientific notation". The number to the left of the "E" is to be multiplied by the power of 10 indicated by the number to the right of the "E".

DATA, ANALYSES, AND RESULTS

The general features of the data and analysis procedures have been presented. This section contains descriptions of the location of each raingage and explains any unique feature of the data. The total rainfall during the sampled period is compared to the climatic average rainfall data for each location.

Paris, France

Data were obtained from the Montsouris Observatory in Paris for two years, 1970 and 1971. These records were quite suitable for the calculations of 1-minute rates. Frequencies of these rates appear in Tables 1 through 3 in the Appendix. Data are presented by months for each year and for the two years combined. The 30-year mean for Paris (the average of Orly and Le Bourget Airport measurements) is 599 mm. During 1970, Paris-Montsouris had a precipitation total of 600 mm, almost exactly equal to the normal. In 1971, the precipitation total was less than normal, only 467 mm.

Bet Pagan, Israel

Microfilm copies of raingage records for 1971 were obtained from a gage located in Bet Dagan, a city about five miles southeast of Tel Aviv.

The records were of quite good quality; however, the scale of the charts was not sufficiently expanded to permit 1-minute rate measurements. A table of 4-minute rates has been prepared (Table 4 in the Appendix).

There is a very definite seasonal variation in the rainfall rate characteristics at Bet Dagan.. The total rainfall for the year was 679 mm, and 440 mm of this fell in the three months of January, February, and December. No measurable rain fell from June through September.

The 10-year normal annual precipitation at Tel Aviv is 795 mm, so the year 1971 was somewhat drier than normal.

Preston and Reading, England

Preston, England, is in Lancashire, on the Irish Sea at the mouth of the Ribble River. Reading is in Berkshire, about 59 km west of London. Copies of charts from raingages in these cities were obtained on microfilm for 1 year of record. These are very good records and have been used to calculate highly reliable 1-minute rate frequencies. The data for Preston are in Table 5 of the Appendix, and that for Reading, in Table 6. The data for both of these stations are for the year 1970, chosen because the annual total precipitation was near the long-term averages for these locations. For Preston, the average was 1003 mm, and the 1970 total precipitation was 971 mm. Reading has an average of 643 mm, and had 664 mm in 1970.

Koblenz and Freiburg, West Germany

Paper copies of the 1970 precipitation gage charts were obtained for Koblenz. Microfilm records were obtained for 1964 and 1965 from Freiburg. Koblenz is located on the Rhine River in Western Germany, about 55 km southeast of Bonn. Freiburg is farther south, near the French and Swiss borders of West Germany. Freiburg is at the west edge of the Schwarz Wald range of mountains. Although the records were of good quality, the time scale did not permit 1-minute calculations. The 4-minute rate frequencies for Koblenz are in Table 7, and for Freiburg in Tables 8 through 10 in the Appendix.

Although the normal annual precipitation at Koblenz was not readily available, it would appear from the normals for nearby stations that the annual normal total precipitation at Koblenz would be about 682 mm. In 1970, our measurements show a less than normal precipitation total of 616 mm. The 40-year average at Freiburg is 887 mm. In 1964, the precipitation was below normal, 673 mm, and in 1965 Freiburg had an above-normal precipitation total of 1973 mm.

Naha, Okinawa

Microfilm copies of charts from a gage at Naha, Okinawa, were supplied by the U. S. Air Force for 2 years in suitable form for these calculations.

Okinawa is one of the Ryukyu Islands, southwest of Japan, at about 26° north latitude and 128° east longitude. Situated as it is on the west edge of the Pacific, Okinawa has frequent encounters with typhoons. During 1967, two typhoons passed near Okinawa, but in 1966, four typhoons passed either over or very close to Naha. "Alice", which passed over Naha on September 1, was a particularly violent storm (Environmental Science Service Administration 1966). Frequency tables for 1966, 1967, and combined 1966 and 1967 are Tables 11 through 13 in the Appendix.

The annual precipitation at Naha was above normal in 1966 (2872 mm), and below normal in 1967 (1297 mm). The 30-year normal is 2103 mm.

Albuquerque, New Mexico

Microfilm records of the charts of a weighing-bucket gage operated by the National Weather Service were purchased from the National Weather Records Center. Frequencies of 4-minute rates were calculated, and are in Table 14 of the Appendix. These data are for the year 1952. No measurable rain fell in October, and several other months have less than 1 percent rain time. The monthly totals of precipitation as reported by the National Weather Service agree quite well with those calculated as a by-product of this analysis. The rainfall total of 206 mm in 1952 is essentially the same as the 30-year normal for Albuquerque of 205 mm.

Bismarck, North Dakota

The National Weather Service gage at Bismarck was equipped with a weighing mechanism which gave a full-scale indication for 2.4 inches of precipitation, rather than for 6 inches, as is usual on these weighing-bucket gages with 8-inch collectors. The 4-minute rain frequencies for 1966 are in Table 15 in the Appendix. These tables show that the frequency of rainfall is greatest in the spring and summer, and the highest rates occur in June and July. The winter months have low percentages of precipitation and the rates are always low. Much of this winter precipitation is snow. The chart traces have been measured as indicated. It is likely that the winter data are less reliable due to the problems of wind effects on the collection of the snow in the gage. Of course, the rates are in terms of equivalent melted water when snow is falling.

The annual total precipitation in 1966 at Bismarck was 425 mm, a little above the normal of 385 mm.

Seattle, Washington

Records for the National Weather Service weighing-bucket gage at the Seattle-Tacoma Airport were purchased for the year 1965. The 4-minute rate frequencies are in Table 16 in the Appendix. The months of November, December, and January have high frequencies of occurrence of precipitation,

but the highest rates are lower than those found at many other locations. The 1965 total annual precipitation at Seattle was 852 mm, a little less than the normal of 990 mm.

Urbana, Illinois

In mid-April 1969 , the weighing-bucket recording precipitation gage at the Urbana weather station was converted to 6-hour gearing for the chart drive, and a 12.648-inch collector was installed. Since 1897, this station has been located within the Morrow Plots Experimental Farm on the campus of the University of Illinois at Urbana-Champaign. This station is presently operated by the Illinois State Water Survey.

The gage charts from May 1969 through April 1972 have been analyzed for 1-minute rate frequencies. The data for the three years, each running from May through April, are in Tables 17 through 19. The combined 3-year frequencies are in Table 20 in the Appendix.

The frequency tables for Urbana do not vary greatly from year to year for these three years. Also, the annual total precipitations of 905, 802, and 1030 mm agree reasonably well with the 82-year mean for this station of 35.89 inches or 911.6 mm.

Central Illinois Line Average Rates

During 1969 and 1970 a raingage network of 196 weighing-bucket-type gages was operated in central Illinois. This network was arranged on a nearly square 14 x 14 grid, with gages spaced about 3 statute miles apart. The general configuration and location of this network is illustrated in Figure 1.

Two lines of gages within this network were equipped with recorders which used at least 0.8 mm of chart length per minute and 2.5 mm of chart height per 1.0 mm of precipitation. The north-south line consisted of gages that extended from gage 13 at the north end to gage 195 at the south end of the line. The east-west line consisted of gages 85 through 98, across the middle of the network, and thus gage 97 was shared by both lines.

For each of these lines, 2-minute rates were used to derive "line-average" rates. Although the gages were of the same type from which we have generally calculated 1-minute rates, timing inaccuracies between gages necessitated the use of a longer rate period to determine the line averages. In calculating these line averages, the rate at any gage was considered to represent half of the distance to each of the adjacent gages on either side (about 3 miles). However, from statistical considerations, the distance represented by the end gages was about 1.5 miles (not extending beyond the end gages of the lines). When a gage had a missing record, it was effectively assigned a value equal to the average of the rates of its adjacent gages.

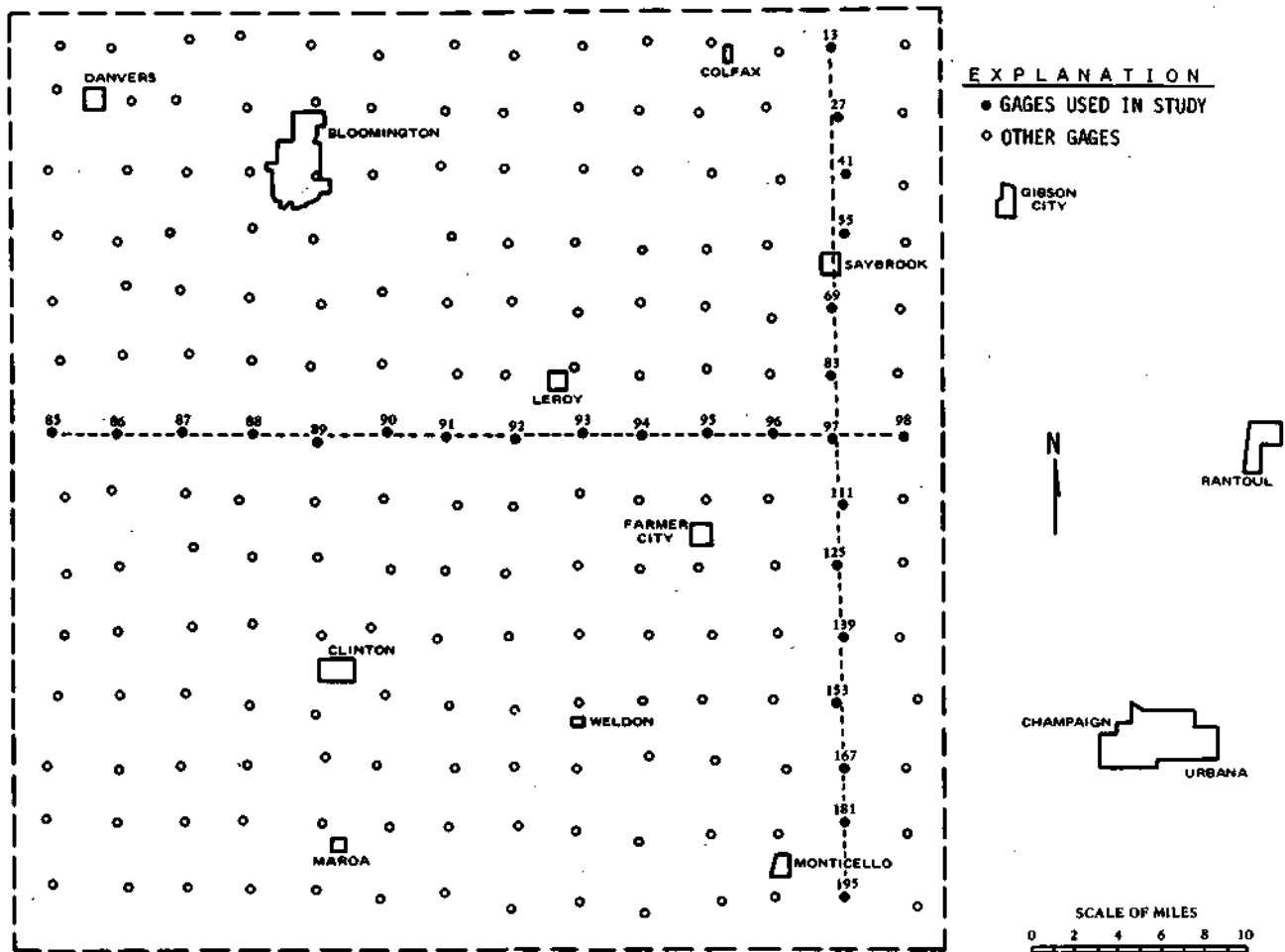


Figure 1. The Central Illinois raingage network, showing the lines of gages used in this study.

When two or more adjacent gages were missing, a line average rate was not calculated, and the operation time was reduced accordingly. Since rain often occurs over only a portion of the lines, the average rates are significantly lower than the 0.0042 mm/min used as a cut-off value for most of the single gage analyses. For these analyses, rates from each gage less than 0.0001 mm/min were considered zero, and these individual gage rates were rounded to the nearest 0.0002 mm/min. The quantizing effects of these round-off procedures can be detected in the frequency tables, but the effects are very small and are noticeable only for rates much less than the usual 0.0042 mm/min cut-off value.

In order to evaluate the effects of line length on average rate frequencies, shortened versions of the lines were used for frequency calculations. On the east-west line, gages were "removed" from the west end, two at a time, until a two-gage line resulted consisting of gages 97 and 98. On the north-south line, a gage was removed from each end of the line, until a two-gage line resulted consisting of gages 97 and 111. All the various lengths of lines may then be compared with the single gage 97.

During the summer of 1969, an attempt was made to more accurately record rainfall rates by equipping the gages with 18-inch diameter collectors and by gearing the chart cylinder to obtain a revolution each 170 minutes, rather than the more usual 6 hours. These revisions proved to be not at all satisfactory. Much data were lost due to overflowing buckets and to clock stoppages. Because of these problems, the 12-inch collectors and 6-hour gearing were used in the summer of 1970. Only the April-August 1970 data have been used for line-average-rate frequencies. Some data from a single gage of the 1969 season have been used for an investigation of rate frequencies calculated for less than 1-minute intervals.

The tables of line frequencies for the north-south lines by months and for all data (April through August 16) combined appear in Tables 21 through 27 in the Appendix. Similarly, the tables for the east-west lines are Tables 28 through 34 in the Appendix. Table 35 is for the single gage (No. 97) shared by both the north-south and the east-west lines. In addition to these tables, the combined April through August data ("all data") for the various lengths of lines have been summarized in Table 36 for the north-south lines and Table 37 for the east-west lines. These summary tables contain no information not already presented, but this arrangement shows more clearly the variations of frequency with line length. In general, these variations take place in a systematic fashion.

On Figure 2 are plotted the 2-minute rate frequencies for the 2-gage (3-mile), the 8-gage (21-mile), and the 14-gage (39-mile) lines from the north-south lines of gages. This figure illustrates the general effects of the length of lines on the frequencies of occurrence of rainfall rates. The highest rates occur most often on the shortest line. Since the high rates are likely to be of small area, longer lines are likely to have several gages recording either zero or light rainfall rates at the time one or a few gages record the high rate, thus, lowering the line average rate. The curves cross each other at a rate of about 0.02 mm/min, and at lower rates, it is

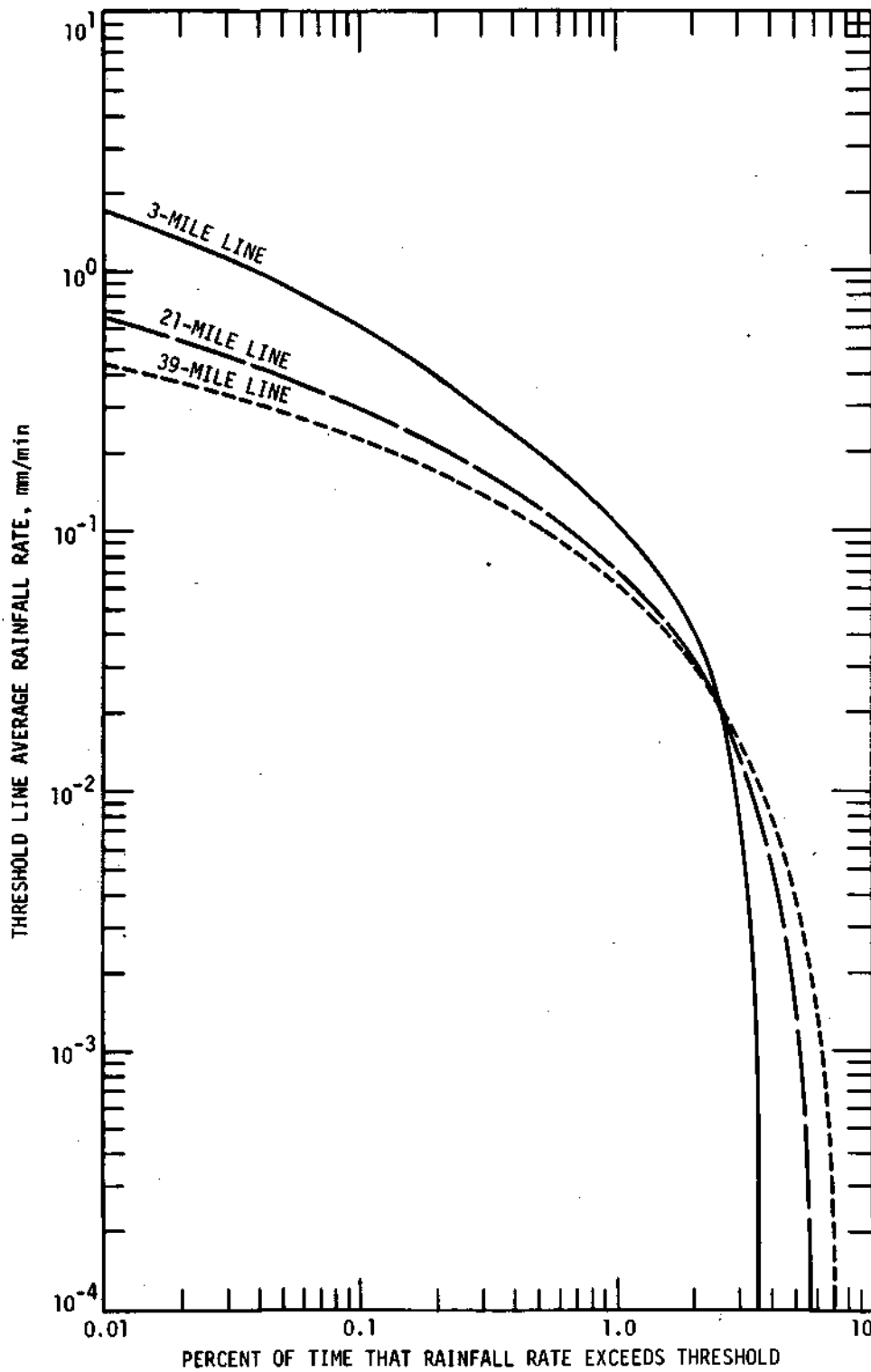


Figure 2. Cumulative frequency distributions of average rainfall rates for 3-mile, 21-mile, and 39-mile north-south lines in Central Illinois (data from Table 36 in the Appendix).

the longer lines that show the greatest probabilities of rainfall. These characteristics are illustrated in another form in Figure 3. The curves on Figure 3 have been interpolated from the data for the north-south lines of Table 36. In plotting these curves the 1-gage (point) data were not used. The 1-gage data do not conform well with the trends established by these lines. This would appear to be due to the chance occurrence of more rain and higher rates at gage 98, which was paired with gage 97 for the 2-gage line, than at gage 97. Because of this, the curves of Figure 3 have been extrapolated to zero miles along the curves established by the 2- to 14-gage lines. This results in a more realistic set of curves than would be the case if the curves had been plotted using the gage 97 data.

Maximum Rates Along Lines

As a by-product of the analysis to compute the average line-rate-frequency tables for central Illinois data, tabulations of the frequency of maximum rates along various lengths of lines were also calculated. These are 2-minute rates since they were picked from the same arrays of 2-minute rates as were used to calculate the average line frequencies. For each 2-minute interval, the rates for each gage along the line were examined to see which was the maximum. This maximum was then tabulated in the same way as was the average for the line. These maximum rates are in Tables 38 through 53 in the Appendix.

Figure 4 shows the 3-, 2-, and 39-mile line frequencies of maximum rates for the north-south lines. For all frequencies, the longer line has the higher corresponding rate. This is to be expected, since for each 2-minute interval, the average rate would be less than the maximum, and the probabilities of the occurrence of a higher rate is more likely on a long line than on a short one.

It may also be seen by comparison of Figures 2 and 4 that the 3-mile average curve is very similar to the 3-mile maximum curve, but the 29-mile curves are greatly different at the high rate end. As more gages are averaged together, the more the average rate is likely to be decreased below the maximum. This is a natural consequence of the high rates being more rare events than lower rates. Obviously, it may be noted that for a single gage, the maximum is the same as the average.

0

Variation of Rate Frequencies with Sampling Interval

The 1-minute frequencies for nearly one year of data from Miami, Florida, were included in a previous report (Jones and Sims, 1971). Table 54 in the Appendix has been calculated for the same data, but for sampling intervals of 1, 2, 4, 8, 16, 32, and 64 minutes. These intervals have been chosen as groupings of clock minutes, beginning at the start of a clock hour. In this way, each of the intervals of one length contain exactly two of the next shorter intervals.

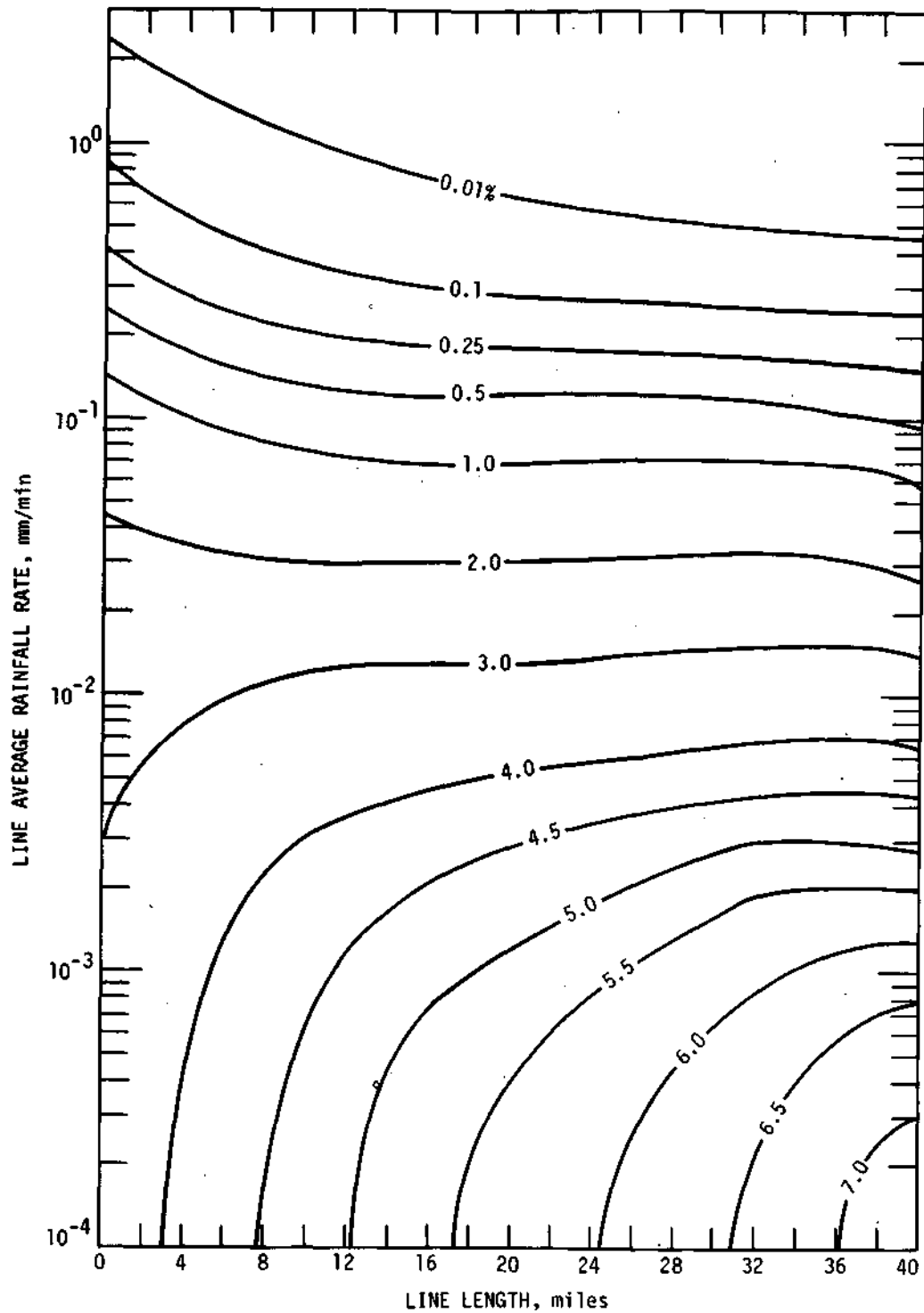


Figure 3. Percent of time that line average rates are exceeded as a function of line length for north-south lines in Central Illinois (derived from the data of Table 36 in the Appendix).

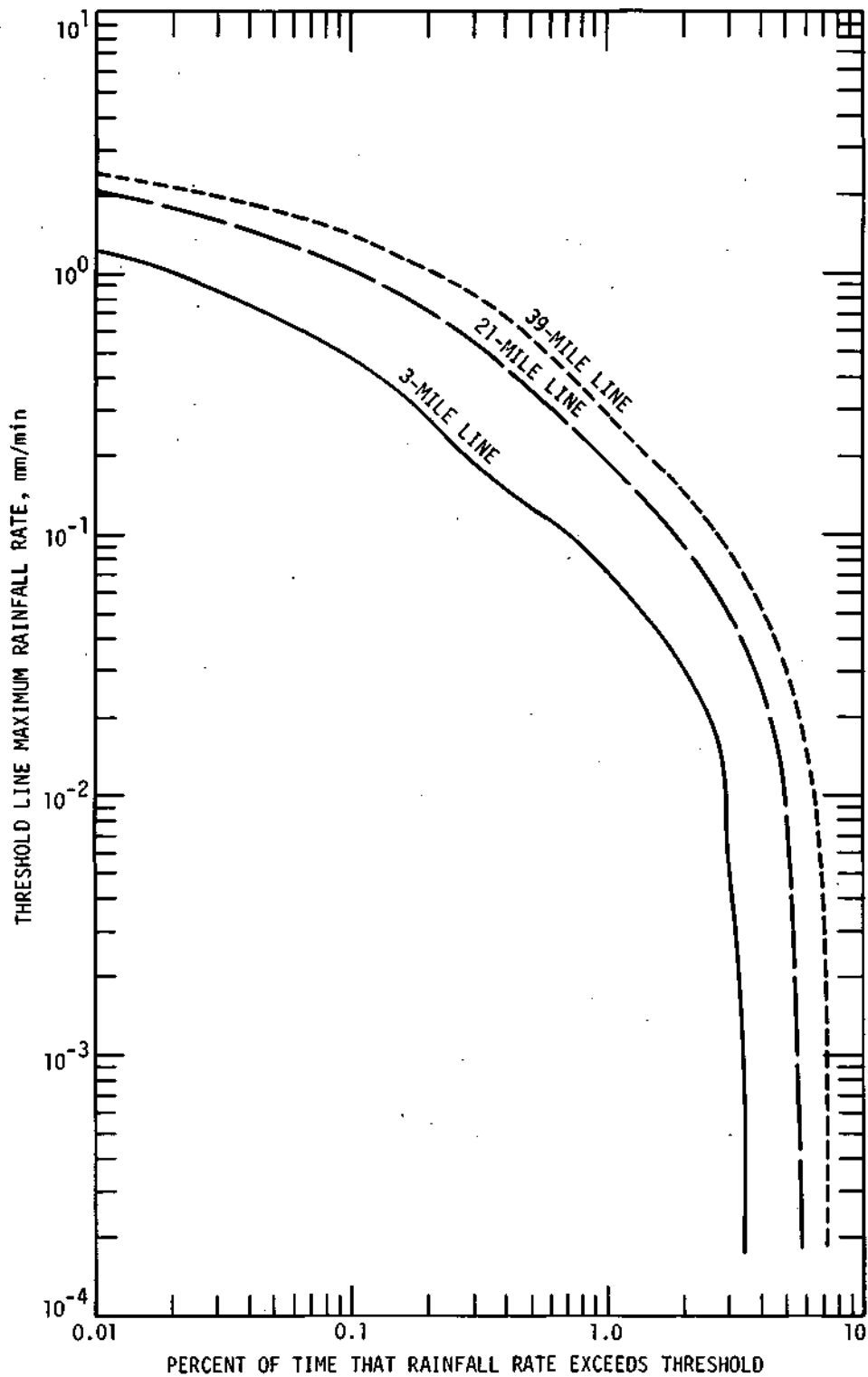


Figure 4. Cumulative frequency distributions of maximum rainfall rates for 3-mile, 21-mile, and 39-mile north-south lines in Central Illinois (data from Table 52 in the Appendix).

Table 54 shows the changes in the rate frequency distributions with lengthening measurement intervals. In general, a larger percentage of rain time is indicated for the longer intervals because of the greater amount of no-rain time being included in the clock-minutes of the interval. The highest rates observed decrease with interval, since high peak rates are averaged with lesser rates in the longer intervals.

A similar table has been prepared using about two months of data from one of the gages in the Central Illinois Network which had been converted to 170 minutes per revolution operation. This gage, No. 89, also had an 18-inch diameter collector. This particular gage was chosen for its reliable operation during the period selected.

For this Illinois gage, frequencies were calculated for intervals of 0.25, 0.5, 1, 2, 4, 8, and 16 minutes, and these frequencies are in Table 55 in the Appendix. The interval of 0.25-minute amounts to a length on the original chart of only 0.017 inches; this is about as small as would seem reasonable to try to measure, and even it may have had some noise introduced by the measurement procedure. However, the general trends are probably valid. Again, higher rates are found for shorter intervals than for longer ones. Also, the percentage of time that the rate exceeds 0.0042 mm/min increases with the lengthening of the intervals. However, the changes in most of the frequency distribution for intervals less than one minute are extremely small. This tends to lend validity to the 1-minute rates as "instantaneous" rates, except possibly for the rare highest rates.

Duration of Rates

An item of interest, in addition to the frequency of occurrence of various rates, is the question of how long is a given rate likely to persist if it occurs. An attempt has been made to answer this question.

Rates were calculated from the digitized gage records for 1-minute intervals. These rates were arranged into an array of sequential rates in the computer. Several passes were made through the array. On each pass, each rate was examined to see if it was equal to or greater than one of several rate thresholds. If so, the number of minutes were counted while the rate continued equal to or greater than the threshold rate. When the rate fell to less than the threshold rate, the count of the number of minutes, that is, the duration, was tabulated into a table of frequencies of duration. A pass through the array was done in this fashion for each of the desired threshold rates. The duration table was then summed to get cumulative frequencies of durations, and normalized to produce a table showing the percentage conditional frequency distribution of occurrences of various durations from 1 to 90 minutes and for rates from 0.2 to 3.0 mm/min. These tables for Miami, Florida; Majuro; Island Beach, New Jersey; Franklin, North Carolina; and for 3 years of data from Urbana, Illinois, are Tables 56 through 60 in the Appendix.

As a further explanation of the use of these tables, reference is made to Table 56 for Miami. This table shows that when the rainfall rate exceeds

0.8 mm/min, the rain may be expected to continue at this or higher rates for at least 4 minutes, 52.1 percent of the time. Only 1.1 percent of the occurrences of this rate would continue for more than 25 minutes.

These tables are not intended to show how often various rates occur, but rather, to show how long various rates would likely continue at that rate or a higher rate without dropping to a lower rate. The tables of frequencies of occurrences of rainfall rates for these locations are contained in the previous report (Jones and Sims, 1971).

SUMMARY AND CONCLUSIONS

The primary result of this research is the many tables of this report. These tables, together with those in the previous report (Jones and Sims, 1971), are a very extensive and unique collection of data on nearly instantaneous precipitation rates, both at point locations in many different climatic regions, and for some lines of precipitation gages.

These data are suitable for further analyses. Further work with these data is being done by personnel of the Air Force Cambridge Research Laboratories. A preliminary report (Lenhard, Cole, and Sissenwine, 1971) described models that relate precipitation rate frequencies to commonly available climatological parameters. Another report (Sissenwine, 1972), made some use of these data in modeling extremes of precipitation aloft.

ACKNOWLEDGMENTS

The data reported from foreign countries were made possible by several officials in these countries and their cooperation is sincerely appreciated. Special credit is due to A. Bleasdale of the Meteorological Office for the British data; to R. Arlery of the Conseil Supérieur de la Météorologie and P. Duverge of the Service Météorologique Métropolitain for the data from Paris; to Mr. M. Thaller and Mr. Kaleff for the data from Bet Dagan, Israel; to Dr. H. Liebscher of the Bundesanstalt für Gewässerkunde for the Koblenz data; and to Herr Johannsen of the Deutscher Wetterdienst for the Freiburg data.

Appreciation is also due to Stanley A. Changnon, Jr., Head of the Atmospheric Sciences Section of the Water Survey, under whose direction this work has been carried out. The personnel of the Survey's Research Support Group including Marvin Clevenger and Leah Trover have contributed in the digitizing of the data from Urbana and central Illinois. Lalit Kumar digitized all the microfilm records and did some of the programming for

these records. Much of the analysis was done on the IBM 360/75 computer system at the University of Illinois, which is supported in part by the National Science Foundation.

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APPENDIX

Tables

TABLE 1. FREQUENCIES OF 1-MINUTE PRECIPITATION RATES MEASURED AT THE MONTSOURIS OBSERVATORY IN PARIS FRANCE DURING THE YEAR 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
1.26E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.94E-01	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
6.31E-01	3.61E-03	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	6.94E-03
5.01E-01	5.90E-03	0.00E+00	4.96E-03	0.00E+00	0.00E+00	0.00E+00	1.62E-02
3.98E-01	9.89E-03	0.00E+00	1.24E-02	0.00E+00	0.00E+00	0.00E+00	3.70E-02
3.16E-01	1.45E-02	2.24E-03	1.49E-02	2.24E-03	1.39E-02	0.00E+00	5.09E-02
2.51E-01	2.25E-02	2.24E-03	2.73E-02	2.24E-03	2.55E-02	4.48E-03	6.71E-02
2.00E-01	3.37E-02	4.48E-03	4.22E-02	4.48E-03	5.09E-02	6.72E-03	1.04E-01
1.58E-01	5.29E-02	1.57E-02	9.42E-02	8.96E-03	7.41E-02	1.79E-02	1.41E-01
1.26E-01	8.07E-02	4.48E-02	1.41E-01	1.57E-02	1.18E-01	4.03E-02	1.87E-01
1.00E-01	1.34E-01	9.18E-02	2.38E-01	5.15E-02	1.99E-01	7.39E-02	2.92E-01
7.94E-02	2.14E-01	2.08E-01	4.02E-01	8.74E-02	3.12E-01	1.25E-01	4.61E-01
6.31E-02	3.17E-01	3.29E-01	6.08E-01	1.52E-01	4.68E-01	1.79E-01	6.99E-01
5.01E-02	4.54E-01	4.75E-01	9.72E-01	2.78E-01	6.32E-01	2.42E-01	9.58E-01
3.98E-02	6.55E-01	7.68E-01	1.54E+00	5.02E-01	8.52E-01	3.99E-01	1.25E+00
3.16E-02	9.31E-01	1.08E+00	2.39E+00	9.66E-01	1.22E+00	6.34E-01	1.52E+00
2.51E-02	1.27E+00	1.49E+00	3.54E+00	1.59E+00	1.67E+00	8.98E-01	1.74E+00
2.00E-02	1.67E+00	2.01E+00	4.80E+00	2.29E+00	2.28E+00	1.19E+00	1.98E+00
1.58E-02	2.08E+00	2.65E+00	6.09E+00	2.91E+00	3.00E+00	1.43E+00	2.24E+00
1.26E-02	2.54E+00	3.29E+00	7.18E+00	3.56E+00	3.80E+00	1.75E+00	2.65E+00
1.00E-02	2.93E+00	3.86E+00	8.00E+00	4.14E+00	4.55E+00	2.00E+00	2.98E+00
7.94E-03	3.35E+00	4.41E+00	9.06E+00	4.76E+00	5.23E+00	2.28E+00	3.30E+00
6.31E-03	3.75E+00	4.85E+00	1.01E+01	5.39E+00	5.84E+00	2.56E+00	3.70E+00
5.01E-03	4.12E+00	5.16E+00	1.09E+01	6.05E+00	6.44E+00	2.81E+00	4.02E+00
4.20E-03	4.36E+00	5.39E+00	1.13E+01	6.42E+00	6.80E+00	3.06E+00	4.24E+00

OPERATION TIME (MIN)	525600	44640	40320	44640	43200	44640	43200
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THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
1.26E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00
1.00E+00	0.00E+00	0.00E+00	2.31E-03	0.00E+00	0.00E+00	0.00E+00
7.94E-01	6.72E-03	0.00E+00	6.94E-03	0.00E+00	2.31E-03	0.00E+00
6.31E-01	1.34E-02	6.72E-03	9.26E-03	2.24E-03	2.31E-03	0.00E+00
5.01E-01	1.79E-02	1.12E-02	1.16E-02	2.24E-03	6.94E-03	0.00E+00
3.98E-01	2.02E-02	1.34E-02	1.62E-02	2.24E-03	1.85E-02	0.00E+00
3.16E-01	2.02E-02	1.79E-02	2.55E-02	4.48E-03	2.31E-02	0.00E+00
2.51E-01	3.36E-02	2.91E-02	3.01E-02	1.12E-02	3.94E-02	0.00E+00
2.00E-01	5.15E-02	4.03E-02	4.17E-02	1.57E-02	4.63E-02	0.00E+00
1.58E-01	8.74E-02	4.93E-02	5.09E-02	2.24E-02	8.10E-02	0.00E+00
1.26E-01	1.30E-01	8.96E-02	6.02E-02	2.91E-02	1.18E-01	4.48E-03
1.00E-01	1.88E-01	1.52E-01	8.80E-02	6.50E-02	1.71E-01	8.96E-03
7.94E-02	2.37E-01	2.62E-01	1.39E-01	1.01E-01	2.52E-01	1.34E-02
6.31E-02	3.05E-01	3.81E-01	1.71E-01	1.41E-01	3.80E-01	3.14E-02
5.01E-02	3.47E-01	5.22E-01	2.38E-01	1.79E-01	5.93E-01	7.62E-02
3.98E-02	4.03E-01	6.59E-01	3.15E-01	2.60E-01	8.54E-01	1.75E-01
3.16E-02	5.02E-01	8.29E-01	3.70E-01	3.52E-01	1.14E+00	3.25E-01
2.51E-02	6.21E-01	1.02E+00	4.21E-01	4.70E-01	1.52E+00	4.88E-01
2.00E-02	7.35E-01	1.20E+00	4.81E-01	6.50E-01	1.96E+00	7.41E-01
1.58E-02	8.67E-01	1.36E+00	5.37E-01	8.15E-01	2.49E+00	1.01E+00
1.26E-02	1.00E+00	1.51E+00	6.18E-01	9.52E-01	3.16E+00	1.43E+00
1.00E-02	1.12E+00	1.63E+00	6.94E-01	1.09E+00	3.85E+00	1.74E+00
7.94E-03	1.27E+00	1.79E+00	7.64E-01	1.25E+00	4.63E+00	2.00E+00
6.31E-03	1.45E+00	1.96E+00	8.56E-01	1.43E+00	5.18E+00	2.37E+00
5.01E-03	1.58E+00	2.03E+00	9.24E-01	1.58E+00	5.85E+00	2.78E+00
4.20E-03	1.71E+00	2.11E+00	9.86E-01	1.66E+00	6.30E+00	3.04E+00

OPERATION TIME (MIN)	44640	44640	43200	44640	43200	44640
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TABLE 2. FREQUENCIES OF 1-MINUTE PRECIPITATION RATES MEASURED AT THE MONTSOURIS OBSERVATORY IN PARIS, FRANCE DURING THE YEAR 1971

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
1.58E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.26E+00	9.51E-04	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00E+00	1.71E-03	4.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.94E-01	2.85E-03	6.72E-03	0.00E+00	0.00E+00	0.00E+00	4.48E-03	0.00E+00
6.31E-01	4.57E-03	6.72E-03	0.00E+00	0.00E+00	0.00E+00	1.79E-02	0.00E+00
5.01E-01	7.42E-03	1.12E-02	0.00E+00	0.00E+00	0.00E+00	3.14E-02	6.94E-03
3.98E-01	1.41E-02	1.57E-02	0.00E+00	0.00E+00	4.63E-03	5.82E-02	1.39E-02
3.16E-01	2.23E-02	2.24E-02	0.00E+00	0.00E+00	9.26E-03	8.74E-02	3.24E-02
2.51E-01	2.99E-02	2.69E-02	0.00E+00	2.24E-03	1.16E-02	1.10E-01	4.17E-02
2.00E-01	3.92E-02	3.14E-02	0.00E+00	2.24E-03	2.55E-02	1.41E-01	5.79E-02
1.58E-01	5.71E-02	4.70E-02	0.00E+00	4.48E-03	4.86E-02	1.84E-01	9.26E-02
1.26E-01	8.60E-02	9.41E-02	0.00E+00	6.72E-03	6.48E-02	2.64E-01	1.39E-01
1.00E-01	1.34E-01	1.55E-01	1.49E-02	8.96E-03	1.11E-01	4.41E-01	1.99E-01
7.94E-02	1.96E-01	2.31E-01	4.22E-02	1.79E-02	1.48E-01	5.96E-01	3.03E-01
6.31E-02	2.84E-01	3.72E-01	1.07E-01	2.69E-02	2.31E-01	7.93E-01	3.89E-01
5.01E-02	4.03E-01	6.14E-01	2.13E-01	5.60E-02	3.61E-01	1.06E+00	5.74E-01
3.98E-02	5.54E-01	9.50E-01	3.72E-01	1.23E-01	5.39E-01	1.29E+00	8.31E-01
3.16E-02	7.36E-01	1.36E+00	5.68E-01	2.40E-01	8.31E-01	1.53E+00	1.15E+00
2.51E-02	9.61E-01	1.87E+00	9.15E-01	4.05E-01	1.14E+00	1.73E+00	1.50E+00
2.00E-02	1.22E+00	2.34E+00	1.28E+00	6.79E-01	1.46E+00	2.02E+00	1.94E+00
1.58E-02	1.47E+00	2.82E+00	1.72E+00	1.02E+00	1.77E+00	2.29E+00	2.32E+00
1.26E-02	1.74E+00	3.23E+00	2.12E+00	1.42E+00	2.11E+00	2.57E+00	2.72E+00
1.00E-02	1.98E+00	3.59E+00	2.47E+00	1.79E+00	2.35E+00	2.75E+00	3.02E+00
7.94E-03	2.21E+00	3.93E+00	2.83E+00	2.26E+00	2.59E+00	2.94E+00	3.34E+00
6.31E-03	2.43E+00	4.20E+00	3.07E+00	2.72E+00	2.93E+00	3.15E+00	3.61E+00
5.01E-03	2.58E+00	4.41E+00	3.31E+00	3.02E+00	3.05E+00	3.32E+00	3.78E+00
4.20E-03	2.68E+00	4.53E+00	3.42E+00	3.22E+00	3.13E+00	3.44E+00	3.86E+00
OPERATION TIME (MIN)	525600	44640	40320	44640	43200	44640	43200

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
1.58E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.26E+00	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00E+00	1.12E-02	2.24E-03	0.00E+00	0.00E+00	2.31E-03	0.00E+00
7.94E-01	1.57E-02	4.48E-03	0.00E+00	0.00E+00	2.31E-03	0.00E+00
6.31E-01	1.57E-02	8.96E-03	0.00E+00	2.24E-03	2.31E-03	0.00E+00
5.01E-01	2.02E-02	1.12E-02	0.00E+00	2.24E-03	4.63E-03	0.00E+00
3.98E-01	2.69E-02	3.14E-02	0.00E+00	6.72E-03	9.26E-03	0.00E+00
3.16E-01	3.14E-02	6.50E-02	0.00E+00	6.72E-03	9.26E-03	0.00E+00
2.51E-01	4.03E-02	1.03E-01	0.00E+00	6.72E-03	1.16E-02	0.00E+00
2.00E-01	5.15E-02	1.37E-01	0.00E+00	6.72E-03	1.16E-02	0.00E+00
1.58E-01	8.96E-02	1.77E-01	0.00E+00	1.12E-02	2.31E-02	0.00E+00
1.26E-01	1.61E-01	2.24E-01	4.63E-03	1.12E-02	5.09E-02	0.00E+00
1.00E-01	2.40E-01	2.98E-01	6.94E-03	1.57E-02	9.72E-02	0.00E+00
7.94E-02	3.72E-01	3.74E-01	1.62E-02	4.03E-02	1.85E-01	2.24E-03
6.31E-02	5.13E-01	4.59E-01	3.01E-02	7.62E-02	3.84E-01	6.72E-03
5.01E-02	6.32E-01	5.44E-01	3.70E-02	1.23E-01	5.76E-01	3.36E-02
3.98E-02	8.06E-01	6.32E-01	6.25E-02	1.68E-01	7.82E-01	6.72E-02
3.16E-02	9.54E-01	7.15E-01	8.10E-02	2.44E-01	1.05E+00	9.41E-02
2.51E-02	1.15E+00	8.40E-01	9.03E-02	3.34E-01	1.42E+00	1.30E-01
2.00E-02	1.30E+00	9.63E-01	1.04E-01	4.10E-01	1.93E+00	1.81E-01
1.58E-02	1.49E+00	1.04E+00	1.39E-01	4.46E-01	2.44E+00	2.11E-01
1.26E-02	1.66E+00	1.16E+00	1.64E-01	5.22E-01	3.00E+00	3.00E-01
1.00E-02	1.88E+00	1.24E+00	2.06E-01	6.09E-01	3.54E+00	3.58E-01
7.94E-03	2.08E+00	1.31E+00	2.59E-01	6.81E-01	4.02E+00	4.08E-01
6.31E-03	2.20E+00	1.40E+00	3.26E-01	7.46E-01	4.49E+00	4.39E-01
5.01E-03	2.34E+00	1.47E+00	3.87E-01	7.75E-01	4.81E+00	4.70E-01
4.20E-03	2.41E+00	1.51E+00	3.98E-01	8.20E-01	5.06E+00	4.75E-01
OPERATION TIME (MIN)	44640	44640	43200	44640	43200	44640

TABLE 3. FREQUENCIES OF 1-MINUTE PRECIPITATION RATES MEASURED AT THE MONTSOURIS OBSERVATORY IN PARIS, FRANCE DURING THE YEARS 1970 AND 1971 COMBINED

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
1.58E+00	9.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.26E+00	5.71E-04	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00E+00	9.51E-04	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.94E-01	2.19E-03	3.36E-03	0.00E+00	0.00E+00	0.00E+00	2.24E-03	1.16E-03
6.31E-01	4.09E-03	3.36E-03	1.24E-03	0.00E+00	0.00E+00	8.96E-03	3.47E-03
5.01E-01	6.66E-03	5.60E-03	2.48E-03	0.00E+00	0.00E+00	1.57E-02	1.16E-02
3.98E-01	1.20E-02	7.84E-03	6.20E-03	0.00E+00	2.31E-03	2.91E-02	2.55E-02
3.16E-01	1.84E-02	1.23E-02	7.44E-03	1.12E-03	1.16E-02	4.37E-02	4.17E-02
2.51E-01	2.62E-02	1.46E-02	1.36E-02	2.24E-03	1.85E-02	5.71E-02	5.44E-02
2.00E-01	3.64E-02	1.79E-02	2.11E-02	3.36E-03	3.82E-02	7.39E-02	8.10E-02
1.58E-01	5.50E-02	3.14E-02	4.71E-02	6.72E-03	6.13E-02	1.01E-01	1.17E-01
1.26E-01	8.33E-02	6.94E-02	7.07E-02	1.12E-02	9.14E-02	1.52E-01	1.63E-01
1.00E-01	1.34E-01	1.23E-01	1.26E-01	3.02E-02	1.55E-01	2.58E-01	2.45E-01
7.94E-02	2.05E-01	2.20E-01	2.22E-01	5.26E-02	2.30E-01	3.61E-01	3.82E-01
6.31E-02	3.00E-01	3.51E-01	3.57E-01	8.96E-02	3.50E-01	4.86E-01	5.44E-01
5.01E-02	4.28E-01	5.44E-01	5.93E-01	1.67E-01	4.97E-01	6.49E-01	7.66E-01
3.98E-02	6.04E-01	8.59E-01	9.54E-01	3.12E-01	6.96E-01	8.46E-01	1.04E+00
3.16E-02	8.34E-01	1.22E+00	1.48E+00	6.03E-01	1.03E+00	1.08E+00	1.33E+00
2.51E-02	1.12E+00	1.68E+00	2.23E+00	9.96E-01	1.40E+00	1.32E+00	1.62E+00
2.00E-02	1.44E+00	2.18E+00	3.04E+00	1.48E+00	1.87E+00	1.61E+00	1.96E+00
1.58E-02	1.78E+00	2.74E+00	3.91E+00	1.96E+00	2.39E+00	1.86E+00	2.28E+00
1.26E-02	2.14E+00	3.26E+00	4.65E+00	2.49E+00	2.96E+00	2.16E+00	2.69E+00
1.00E-02	2.45E+00	3.73E+00	5.24E+00	2.97E+00	3.45E+00	2.37E+00	3.00E+00
7.94E-03	2.78E+00	4.17E+00	5.95E+00	3.51E+00	3.91E+00	2.61E+00	3.32E+00
6.31E-03	3.09E+00	4.52E+00	6.58E+00	4.06E+00	4.38E+00	2.85E+00	3.65E+00
5.01E-03	3.35E+00	4.78E+00	7.12E+00	4.54E+00	4.74E+00	3.06E+00	3.90E+00
4.20E-03	3.52E+00	4.96E+00	7.36E+00	4.82E+00	4.96E+00	3.25E+00	4.05E+00
OPERATION TIME (MIN)	1051200	89280	80640	89280	86400	89280	86400

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
1.58E+00	1.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.26E+00	4.48E-03	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00
1.00E+00	5.60E-03	1.12E-03	1.16E-03	0.00E+00	1.16E-03	0.00E+00
7.94E-01	1.12E-02	2.24E-03	3.47E-03	0.00E+00	2.31E-03	0.00E+00
6.31E-01	1.46E-02	7.84E-03	4.63E-03	2.24E-03	2.31E-03	0.00E+00
5.01E-01	1.90E-02	1.12E-02	5.79E-03	2.24E-03	5.79E-03	0.00E+00
3.98E-01	2.35E-02	2.24E-02	8.10E-03	4.48E-03	1.39E-02	0.00E+00
3.16E-01	2.58E-02	4.14E-02	1.27E-02	5.60E-03	1.62E-02	0.00E+00
2.51E-01	3.70E-02	6.61E-02	1.50E-02	8.96E-03	2.55E-02	0.00E+00
2.00E-01	5.15E-02	8.85E-02	2.08E-02	1.12E-02	2.89E-02	0.00E+00
1.58E-01	8.85E-02	1.13E-01	2.55E-02	1.68E-02	5.21E-02	0.00E+00
1.26E-01	1.46E-01	1.57E-01	3.24E-02	2.02E-02	8.45E-02	2.24E-03
1.00E-01	2.14E-01	2.25E-01	4.75E-02	4.03E-02	1.34E-01	4.48E-03
7.94E-02	3.05E-01	3.18E-01	7.75E-02	7.06E-02	2.19E-01	7.84E-03
6.31E-02	4.09E-01	4.20E-01	1.01E-01	1.09E-01	3.82E-01	1.90E-02
5.01E-02	4.89E-01	5.33E-01	1.38E-01	1.51E-01	5.84E-01	5.49E-02
3.98E-02	6.05E-01	6.45E-01	1.89E-01	2.14E-01	8.18E-01	1.21E-01
3.16E-02	7.28E-01	7.72E-01	2.26E-01	2.98E-01	1.10E+00	2.09E-01
2.51E-02	8.85E-01	9.30E-01	2.56E-01	4.02E-01	1.47E+00	3.09E-01
2.00E-02	1.02E+00	1.08E+00	2.93E-01	5.30E-01	1.95E+00	4.61E-01
1.58E-02	1.18E+00	1.20E+00	3.38E-01	6.31E-01	2.46E+00	6.08E-01
1.26E-02	1.33E+00	1.33E+00	3.91E-01	7.37E-01	3.08E+00	8.65E-01
1.00E-02	1.50E+00	1.43E+00	4.50E-01	8.49E-01	3.70E+00	1.05E+00
7.94E-03	1.68E+00	1.55E+00	5.12E-01	9.68E-01	4.32E+00	1.20E+00
6.31E-03	1.82E+00	1.68E+00	5.91E-01	1.09E+00	4.84E+00	1.40E+00
5.01E-03	1.96E+00	1.75E+00	6.55E-01	1.18E+00	5.33E+00	1.63E+00
4.20E-03	2.06E+00	1.81E+00	6.92E-01	1.24E+00	5.68E+00	1.76E+00
OPERATION TIME (MIN)	89280	89280	86400	89280	86400	89280

TABLE 4. FREQUENCIES OF 4-MINUTE PRECIPITATION RATES MEASURED IN BET DAGAN, ISRAEL DURING THE YEAR 1971

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
1.00E+00	2.28E-03	0.00E+00	9.92E-03	0.00E+00	0.00E+00	0.00E+00	NO MEASURABLE RAINFALL THIS MONTH
7.94E-01	3.04E-03	0.00E+00	1.98E-02	0.00E+00	0.00E+00	0.00E+00	
6.31E-01	1.14E-02	8.96E-03	4.96E-02	0.00E+00	0.00E+00	0.00E+00	
5.01E-01	1.75E-02	1.79E-02	6.94E-02	0.00E+00	1.85E-02	0.00E+00	
3.98E-01	3.20E-02	1.79E-02	1.09E-01	0.00E+00	6.48E-02	0.00E+00	
3.16E-01	5.18E-02	1.79E-02	2.08E-01	2.69E-02	9.26E-02	0.00E+00	
2.51E-01	8.30E-02	5.38E-02	3.08E-01	6.27E-02	1.30E-01	0.00E+00	
2.00E-01	1.14E-01	8.96E-02	3.87E-01	8.06E-02	2.22E-01	0.00E+00	
1.58E-01	1.60E-01	1.25E-01	4.96E-01	1.08E-01	3.24E-01	0.00E+00	
1.26E-01	2.18E-01	2.42E-01	6.94E-01	1.25E-01	4.81E-01	0.00E+00	
1.00E-01	2.83E-01	3.94E-01	8.63E-01	1.52E-01	6.11E-01	0.00E+00	
7.94E-02	3.92E-01	6.99E-01	1.09E+00	1.97E-01	7.78E-01	0.00E+00	
6.31E-02	5.24E-01	1.09E+00	1.31E+00	2.33E-01	9.44E-01	0.00E+00	
5.01E-02	6.66E-01	1.53E+00	1.57E+00	3.23E-01	1.25E+00	0.00E+00	
3.98E-02	8.26E-01	1.93E+00	1.87E+00	4.75E-01	1.61E+00	0.00E+00	
3.16E-02	9.66E-01	2.27E+00	2.12E+00	5.38E-01	1.82E+00	0.00E+00	
2.51E-02	1.15E+00	2.68E+00	2.39E+00	6.00E-01	2.17E+00	0.00E+00	
2.00E-02	1.32E+00	3.07E+00	2.68E+00	7.17E-01	2.39E+00	0.00E+00	
1.58E-02	1.51E+00	3.64E+00	3.05E+00	7.80E-01	2.75E+00	8.06E-02	
1.26E-02	1.70E+00	4.10E+00	3.38E+00	9.14E-01	3.19E+00	1.16E-01	
1.00E-02	1.86E+00	4.44E+00	3.70E+00	9.68E-01	3.53E+00	1.43E-01	
7.94E-03	2.00E+00	4.86E+00	3.92E+00	9.86E-01	3.78E+00	1.43E-01	
6.31E-03	2.15E+00	5.22E+00	4.29E+00	1.13E+00	4.16E+00	1.43E-01	
5.01E-03	2.29E+00	5.50E+00	4.74E+00	1.18E+00	4.45E+00	1.43E-01	
4.20E-03	2.41E+00	5.88E+00	4.97E+00	1.25E+00	4.71E+00	1.52E-01	
OPERATION TIME (MIN)	525600	44640	40320	44640	43200	44640	86400

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
1.00E+00	NO MEASURABLE RAINFALL THIS MONTH	NO MEASURABLE RAINFALL THIS MONTH	NO MEASURABLE RAINFALL THIS MONTH	0.00E+00	9.26E-03	8.96E-03
7.94E-01				0.00E+00	9.26E-03	8.96E-03
6.31E-01				0.00E+00	5.56E-02	2.69E-02
5.01E-01				0.00E+00	6.48E-02	4.48E-02
3.98E-01				0.00E+00	8.33E-02	1.16E-01
3.16E-01				0.00E+00	1.02E-01	1.88E-01
2.51E-01				0.00E+00	1.67E-01	2.96E-01
2.00E-01				0.00E+00	2.04E-01	4.12E-01
1.58E-01				0.00E+00	2.31E-01	6.63E-01
1.26E-01				1.79E-02	2.96E-01	8.06E-01
1.00E-01				8.96E-02	4.07E-01	9.32E-01
7.94E-02				1.25E-01	5.28E-01	1.34E+00
6.31E-02				1.70E-01	8.15E-01	1.78E+00
5.01E-02				2.06E-01	9.35E-01	2.25E+00
3.98E-02				2.69E-01	1.06E+00	2.80E+00
3.16E-02				3.67E-01	1.25E+00	3.31E+00
2.51E-02				3.94E-01	1.38E+00	4.26E+00
2.00E-02				4.21E-01	1.49E+00	5.16E+00
1.58E-02				4.57E-01	1.68E+00	5.80E+00
1.26E-02				5.38E-01	1.83E+00	6.47E+00
1.00E-02				5.82E-01	2.01E+00	7.09E+00
7.94E-03				6.36E-01	2.15E+00	7.60E+00
6.31E-03				6.45E-01	2.21E+00	8.15E+00
5.01E-03				6.54E-01	2.33E+00	8.65E+00
4.20E-03				7.53E-01	2.41E+00	8.95E+00
OPERATION TIME (MIN)	525600	44640	40320	44640	43200	44640

TABLE 5. FREQUENCIES OF 1-HINUTE PRECIPITATION RATES MEASURED IN PRESTON, ENGLAND DURING THE YEAR 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
1.26E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.94E-01	7.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.31E-01	1.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
5.01E-01	4.19E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.94E-03
3.98E-01	7.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-02
3.16E-01	1.27E-02	0.00E+00	4.96E-03	0.00E+00	0.00E+00	2.24E-03	1.39E-02
2.51E-01	2.21E-02	0.00E+00	9.92E-03	0.00E+00	0.00E+00	4.48E-03	1.85E-02
2.00E-01	3.37E-02	0.00E+00	1.24E-02	0.00E+00	0.00E+00	4.48E-03	2.78E-02
1.58E-01	5.56E-02	6.72E-03	2.23E-02	0.00E+00	9.26E-03	1.79E-02	4.63E-02
1.26E-01	9.99E-02	1.34E-02	5.95E-02	2.24E-03	3.47E-02	2.91E-02	7.18E-02
1.00E-01	1.73E-01	1.34E-02	9.92E-02	1.79E-02	1.62E-01	3.81E-02	1.23E-01
7.94E-02	3.03E-01	5.15E-02	2.41E-01	4.48E-02	3.15E-01	5.15E-02	1.87E-01
6.31E-02	5.21E-01	1.55E-01	4.91E-01	1.32E-01	6.34E-01	7.84E-02	3.06E-01
5.01E-02	7.95E-01	3.47E-01	8.43E-01	2.44E-01	1.04E+00	1.30E-01	4.77E-01
3.98E-02	1.18E+00	8.47E-01	1.33E+00	5.29E-01	1.63E+00	1.93E-01	6.37E-01
3.16E-02	1.63E+00	1.43E+00	2.07E+00	8.89E-01	2.25E+00	2.93E-01	8.06E-01
2.51E-02	2.16E+00	2.20E+00	2.97E+00	1.42E+00	2.99E+00	3.47E-01	1.03E+00
2.00E-02	2.74E+00	3.13E+00	3.80E+00	2.05E+00	3.86E+00	4.53E-01	1.35E+00
1.58E-02	3.33E+00	3.95E+00	4.55E+00	2.82E+00	4.72E+00	5.49E-01	1.73E+00
1.26E-02	3.92E+00	4.71E+00	5.24E+00	3.58E+00	5.66E+00	6.65E-01	2.12E+00
1.00E-02	4.48E+00	5.33E+00	5.82E+00	4.15E+00	6.88E+00	7.57E-01	2.42E+00
7.94E-03	5.00E+00	5.91E+00	6.42E+00	4.65E+00	7.92E+00	8.51E-01	2.73E+00
6.31E-03	5.49E+00	6.51E+00	6.83E+00	5.18E+00	8.87E+00	9.70E-01	2.92E+00
5.01E-03	5.93E+00	7.00E+00	7.19E+00	5.77E+00	9.70E+00	1.08E+00	3.18E+00
4.20E-03	6.26E+00	7.42E+00	7.46E+00	6.10E+00	1.03E+01	1.14E+00	3.38E+00

OPERATION TIME (MIN)	525600	44640	40320	44640	43200	44640	43200
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THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
1.26E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00
1.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00
7.94E-01	4.48E-03	0.00E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00
6.31E-01	8.96E-03	2.24E-03	2.31E-03	4.48E-03	0.00E+00	0.00E+00
5.01E-01	1.34E-02	4.48E-03	1.39E-02	1.12E-02	0.00E+00	0.00E+00
3.98E-01	1.79E-02	8.96E-03	2.08E-02	2.24E-02	4.63E-03	0.00E+00
3.16E-01	3.36E-02	8.96E-03	3.24E-02	4.70E-02	9.26E-03	0.00E+00
2.51E-01	4.70E-02	1.57E-02	5.79E-02	8.51E-02	1.85E-02	6.72E-03
2.00E-01	6.72E-02	2.46E-02	7.87E-02	1.48E-01	2.78E-02	1.12E-02
1.58E-01	8.06E-02	5.15E-02	1.30E-01	2.28E-01	5.09E-02	2.02E-02
1.26E-01	1.03E-01	1.57E-01	2.31E-01	3.41E-01	1.16E-01	3.81E-02
1.00E-01	1.70E-01	3.07E-01	3.50E-01	4.88E-01	2.59E-01	4.70E-02
7.94E-02	3.07E-01	5.06E-01	5.19E-01	7.64E-01	5.67E-01	9.18E-02
6.31E-02	4.57E-01	7.59E-01	7.57E-01	1.12E+00	1.22E+00	1.64E-01
5.01E-02	6.38E-01	9.83E-01	1.06E+00	1.55E+00	2.00E+00	2.60E-01
3.98E-02	9.43E-01	1.29E+00	1.40E+00	2.12E+00	2.88E+00	3.79E-01
3.16E-02	1.24E+00	1.60E+00	1.87E+00	2.88E+00	3.81E+00	6.03E-01
2.51E-02	1.67E+00	1.93E+00	2.37E+00	3.47E+00	4.79E+00	9.14E-01
2.00E-02	2.08E+00	2.38E+00	2.81E+00	4.09E+00	5.83E+00	1.23E+00
1.58E-02	2.64E+00	2.79E+00	3.32E+00	4.76E+00	6.80E+00	1.52E+00
1.26E-02	3.21E+00	3.17E+00	3.83E+00	5.39E+00	7.79E+00	1.90E+00
1.00E-02	3.71E+00	3.61E+00	4.28E+00	6.07E+00	8.78E+00	2.22E+00
7.94E-03	4.17E+00	3.94E+00	4.68E+00	6.64E+00	9.80E+00	2.54E+00
6.31E-03	4.58E+00	4.32E+00	5.09E+00	7.21E+00	1.09E+01	2.86E+00
5.01E-03	4.90E+00	4.63E+00	5.44E+00	7.75E+00	1.17E+01	3.13E+00
4.20E-03	5.17E+00	4.75E+00	5.70E+00	8.17E+00	1.25E+01	3.30E+00

OPERATION TIME (MIN)	44640	44640	43200	44640	43200	44640
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TABLE 6. FREQUENCIES OF 1-MINUTE PRECIPITATION RATES MEASURED IN READING, ENGLAND DURING THE YEAR 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
1.26E+00	5.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00E+00	7.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.94E-01	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.31E-01	1.94E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.01E-01	3.29E-03	0.00E+00	0.00E+00	0.00E+00	2.45E-03	4.48E-03	4.63E-03
3.98E-01	5.62E-03	0.00E+00	0.00E+00	0.00E+00	4.90E-03	6.72E-03	1.85E-02
3.16E-01	8.33E-03	2.48E-03	0.00E+00	0.00E+00	1.23E-02	1.57E-02	2.55E-02
2.51E-01	1.22E-02	7.44E-03	2.48E-03	2.24E-03	1.72E-02	2.24E-02	3.24E-02
2.00E-01	2.07E-02	7.44E-03	7.44E-03	6.72E-03	2.70E-02	3.36E-02	4.63E-02
1.58E-01	3.57E-02	1.74E-02	1.49E-02	1.57E-02	3.92E-02	4.93E-02	7.41E-02
1.26E-01	6.36E-02	4.22E-02	3.22E-02	3.14E-02	5.88E-02	6.72E-02	9.95E-02
1.00E-01	1.13E-01	8.93E-02	6.70E-02	4.70E-02	8.58E-02	1.01E-01	1.64E-01
7.94E-02	1.85E-01	1.66E-01	9.92E-02	1.05E-01	1.37E-01	1.14E-01	2.20E-01
6.31E-02	3.03E-01	3.03E-01	1.54E-01	1.64E-01	2.25E-01	1.50E-01	3.19E-01
5.01E-02	4.93E-01	5.28E-01	2.43E-01	3.14E-01	3.43E-01	2.04E-01	4.26E-01
3.98E-02	7.62E-01	8.53E-01	4.49E-01	5.49E-01	5.29E-01	2.87E-01	5.90E-01
3.16E-02	1.10E+00	1.34E+00	8.93E-01	8.06E-01	7.97E-01	3.70E-01	7.48E-01
2.51E-02	1.48E+00	2.00E+00	1.46E+00	1.13E+00	1.22E+00	4.93E-01	9.24E-01
2.00E-02	1.90E+00	2.98E+00	2.07E+00	1.43E+00	1.70E+00	5.89E-01	1.05E+00
1.58E-02	2.33E+00	4.07E+00	2.70E+00	1.84E+00	2.09E+00	6.52E-01	1.17E+00
1.26E-02	2.77E+00	4.93E+00	3.32E+00	2.11E+00	2.61E+00	7.66E-01	1.33E+00
1.00E-02	3.18E+00	5.90E+00	3.79E+00	2.45E+00	3.14E+00	8.98E-01	1.46E+00
7.94E-03	3.55E+00	6.63E+00	4.27E+00	2.77E+00	3.73E+00	9.59E-01	1.54E+00
6.31E-03	3.89E+00	7.32E+00	4.67E+00	3.06E+00	4.23E+00	1.01E+00	1.62E+00
5.01E-03	4.17E+00	7.79E+00	5.01E+00	3.29E+00	4.63E+00	1.08E+00	1.68E+00
4.20E-03	4.36E+00	8.25E+00	5.21E+00	3.45E+00	4.91E+00	1.10E+00	1.74E+00
OPERATION TIME (MIN)	516000	40320	40320	44640	40800	44640	43200

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
1.26E+00	6.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00E+00	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.94E-01	1.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.31E-01	2.02E-02	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.01E-01	2.24E-02	2.24E-03	2.31E-03	0.00E+00	0.00E+00	0.00E+00
3.98E-01	2.24E-02	4.48E-03	4.63E-03	0.00E+00	0.00E+00	4.48E-03
3.16E-01	2.24E-02	4.48E-03	4.63E-03	0.00E+00	6.94E-03	4.48E-03
2.51E-01	2.91E-02	6.72E-03	9.26E-03	2.39E-03	6.94E-03	6.72E-03
2.00E-01	3.81E-02	1.57E-02	1.39E-02	4.79E-03	3.94E-02	6.72E-03
1.58E-01	5.38E-02	2.69E-02	3.70E-02	7.18E-03	8.33E-02	6.72E-03
1.26E-01	9.18E-02	5.60E-02	6.71E-02	1.68E-02	1.78E-01	1.79E-02
1.00E-01	1.41E-01	1.19E-01	1.18E-01	4.07E-02	3.63E-01	1.79E-02
7.94E-02	2.17E-01	2.20E-01	1.90E-01	5.51E-02	6.57E-01	3.58E-02
6.31E-02	3.52E-01	3.81E-01	3.10E-01	7.66E-02	1.13E+00	6.72E-02
5.01E-02	5.26E-01	6.41E-01	4.77E-01	1.01E-01	1.98E+00	1.16E-01
3.98E-02	7.64E-01	9.01E-01	7.96E-01	1.46E-01	3.06E+00	2.17E-01
3.16E-02	1.20E+00	1.16E+00	1.07E+00	1.65E-01	4.30E+00	3.02E-01
2.51E-02	1.58E+00	1.44E+00	1.38E+00	2.27E-01	5.42E+00	4.91E-01
2.00E-02	1.94E+00	1.78E+00	1.80E+00	3.21E-01	6.52E+00	7.80E-01
1.58E-02	2.31E+00	2.22E+00	2.12E+00	3.76E-01	7.49E+00	1.13E+00
1.26E-02	2.64E+00	2.69E+00	2.47E+00	4.48E-01	8.56E+00	1.56E+00
1.00E-02	2.96E+00	3.17E+00	2.80E+00	4.89E-01	9.36E+00	2.07E+00
7.94E-03	3.28E+00	3.55E+00	3.10E+00	5.44E-01	1.00E+01	2.56E+00
6.31E-03	3.56E+00	3.97E+00	3.37E+00	6.25E-01	1.07E+01	2.97E+00
5.01E-03	3.84E+00	4.25E+00	3.65E+00	6.87E-01	1.12E+01	3.30E+00
4.20E-03	3.98E+00	4.48E+00	3.81E+00	7.26E-01	1.14E+01	3.62E+00
OPERATION TIME (MIN)	44640	44640	43200	41760	43200	44640

TABLE 7. FREQUENCIES OF 4-MINUTE PRECIPITATION RATES MEASURED IN KOBLENZ, GERMANY DURING THE YEAR 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
1.26E+00	7.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.94E-01	3.08E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.31E-01	8.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-03	9.26E-03
5.01E-01	1.08E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-03	1.85E-02
3.98E-01	1.62E-02	8.96E-03	0.00E+00	0.00E+00	0.00E+00	1.79E-02	2.78E-02
3.16E-01	2.39E-02	8.96E-03	0.00E+00	0.00E+00	0.00E+00	1.79E-02	3.70E-02
2.51E-01	3.39E-02	8.96E-03	0.00E+00	0.00E+00	0.00E+00	3.58E-02	5.56E-02
2.00E-01	5.00E-02	8.96E-03	0.00E+00	0.00E+00	0.00E+00	5.38E-02	9.26E-02
1.58E-01	7.69E-02	8.96E-03	1.99E-02	8.96E-03	1.85E-02	1.16E-01	1.02E-01
1.26E-01	1.08E-01	1.79E-02	3.97E-02	2.69E-02	7.41E-02	1.43E-01	1.85E-01
1.00E-01	1.57E-01	1.79E-02	7.94E-02	4.48E-02	1.30E-01	2.15E-01	2.50E-01
7.94E-02	2.29E-01	5.38E-02	1.49E-01	8.96E-02	1.85E-01	2.96E-01	3.06E-01
6.31E-02	3.29E-01	9.86E-02	2.28E-01	1.97E-01	3.70E-01	3.41E-01	4.72E-01
5.01E-02	4.55E-01	1.79E-01	3.47E-01	3.58E-01	5.37E-01	5.38E-01	6.67E-01
3.98E-02	6.13E-01	3.05E-01	4.86E-01	5.65E-01	7.13E-01	7.71E-01	7.96E-01
3.16E-02	8.27E-01	5.20E-01	8.04E-01	7.62E-01	9.17E-01	1.21E+00	9.81E-01
2.51E-02	1.08E+00	7.97E-01	1.32E+00	1.03E+00	1.15E+00	1.61E+00	1.14E+00
2.00E-02	1.42E+00	1.29E+00	1.85E+00	1.39E+00	1.46E+00	2.04E+00	1.49E+00
1.58E-02	1.83E+00	2.03E+00	2.60E+00	1.88E+00	1.86E+00	2.61E+00	1.78E+00
1.26E-02	2.28E+00	2.93E+00	3.30E+00	2.39E+00	2.28E+00	3.11E+00	1.95E+00
1.00E-02	2.73E+00	3.78E+00	3.93E+00	2.84E+00	2.69E+00	3.68E+00	2.28E+00
7.94E-03	3.20E+00	4.48E+00	4.79E+00	3.38E+00	3.14E+00	4.35E+00	2.64E+00
6.31E-03	3.69E+00	5.47E+00	5.43E+00	3.95E+00	3.58E+00	5.11E+00	2.97E+00
5.01E-03	4.13E+00	6.31E+00	5.93E+00	4.62E+00	4.06E+00	5.76E+00	3.22E+00
4.20E-03	4.45E+00	6.86E+00	6.49E+00	4.93E+00	4.46E+00	6.26E+00	3.44E+00
OPERATION TIME (MIN)	519840	44640	40320	44640	43200	44640	43200

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
1.26E+00	1.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00E+00	1.03E-02	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.94E-01	3.09E-02	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.31E-01	7.20E-02	8.96E-03	0.00E+00	8.96E-03	0.00E+00	0.00E+00
5.01E-01	9.26E-02	8.96E-03	0.00E+00	8.96E-03	0.00E+00	0.00E+00
3.98E-01	1.03E-01	3.58E-02	0.00E+00	8.96E-03	0.00E+00	0.00E+00
3.16E-01	1.23E-01	5.38E-02	2.78E-02	2.69E-02	0.00E+00	0.00E+00
2.51E-01	1.54E-01	9.86E-02	3.70E-02	2.69E-02	0.00E+00	0.00E+00
2.00E-01	2.16E-01	1.34E-01	5.56E-02	4.48E-02	0.00E+00	8.96E-03
1.58E-01	2.78E-01	1.52E-01	1.48E-01	7.17E-02	9.26E-03	8.96E-03
1.26E-01	3.29E-01	1.70E-01	1.94E-01	8.96E-02	2.78E-02	2.69E-02
1.00E-01	4.73E-01	2.06E-01	3.06E-01	1.75E-01	4.63E-02	2.69E-02
7.94E-02	7.20E-01	2.42E-01	4.44E-01	1.79E-01	1.02E-01	4.48E-02
6.31E-02	9.67E-01	3.32E-01	5.00E-01	2.96E-01	1.20E-01	9.86E-02
5.01E-02	1.14E+00	4.21E-01	6.11E-01	4.12E-01	1.39E-01	1.88E-01
3.98E-02	1.41E+00	5.65E-01	7.04E-01	5.73E-01	2.31E-01	3.32E-01
3.16E-02	1.59E+00	6.99E-01	8.33E-01	7.97E-01	3.70E-01	5.29E-01
2.51E-02	1.80E+00	8.69E-01	9.26E-01	1.09E+00	5.74E-01	7.44E-01
2.00E-02	2.04E+00	1.12E+00	1.09E+00	1.44E+00	9.17E-01	1.03E+00
1.58E-02	2.34E+00	1.45E+00	1.75E+00	1.85E+00	1.16E+00	1.28E+00
1.26E-02	2.66E+00	1.70E+00	1.48E+00	2.39E+00	1.46E+00	1.73E+00
1.00E-02	3.12E+00	2.00E+00	1.65E+00	2.84E+00	1.78E+00	2.25E+00
7.94E-03	3.52E+00	2.26E+00	1.82E+00	3.37E+00	2.02E+00	2.75E+00
6.31E-03	3.95E+00	2.56E+00	2.02E+00	3.79E+00	2.31E+00	3.23E+00
5.01E-03	4.38E+00	2.78E+00	2.22E+00	4.25E+00	2.56E+00	3.57E+00
4.20E-03	4.59E+00	2.90E+00	2.33E+00	4.64E+00	2.71E+00	3.81E+00
OPERATION TIME (MIN)	38880	44640	43200	44640	43200	44640

TABLE 8. FREQUENCIES OF 4-MINUTE PRECIPITATION RATES MEASURED IN FREIBURG, GERMANY DURING THE YEAR 1964 .

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
5.01E-01	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-03	0.00E+00
3.98E-01	5.39E-03	0.00E+00	0.00E+00	0.00E+00	9.26E-03	8.96E-03	0.00E+00
3.16E-01	1.39E-02	0.00E+00	0.00E+00	0.00E+00	1.85E-02	7.17E-02	1.85E-02
2.51E-01	3.00E-02	0.00E+00	0.00E+00	0.00E+00	2.78E-02	1.70E-01	2.78E-02
2.00E-01	4.77E-02	0.00E+00	0.00E+00	8.96E-03	4.63E-02	2.51E-01	6.48E-02
1.58E-01	6.31E-02	0.00E+00	0.00E+00	2.69E-02	5.56E-02	3.49E-01	6.48E-02
1.26E-01	8.69E-02	0.00E+00	0.00E+00	5.38E-02	5.56E-02	4.12E-01	1.11E-01
1.00E-01	1.42E-01	0.00E+00	0.00E+00	7.17E-02	1.30E-01	5.73E-01	2.41E-01
7.94E-02	1.95E-01	1.79E-02	0.00E+00	1.16E-01	2.31E-01	6.36E-01	3.24E-01
6.31E-02	2.85E-01	3.58E-02	0.00E+00	1.70E-01	3.43E-01	8.33E-01	3.98E-01
5.01E-02	4.26E-01	7.17E-02	0.00E+00	3.23E-01	5.28E-01	1.25E+00	5.19E-01
3.98E-02	6.29E-01	1.34E-01	2.87E-02	5.02E-01	9.91E-01	1.68E+00	6.20E-01
3.16E-02	8.86E-01	1.79E-01	1.15E-01	7.53E-01	1.32E+00	2.31E+00	8.70E-01
2.51E-02	1.23E+00	3.14E-01	1.82E-01	1.36E+00	1.77E+00	2.81E+00	1.25E+00
2.00E-02	1.68E+00	4.57E-01	3.74E-01	2.46E+00	2.24E+00	3.40E+00	1.59E+00
1.58E-02	2.17E+00	5.56E-01	8.33E-01	4.10E+00	2.76E+00	3.97E+00	1.90E+00
1.26E-02	2.78E+00	6.54E-01	1.48E+00	6.23E+00	3.27E+00	4.88E+00	2.06E+00
1.00E-02	3.46E+00	8.69E-01	2.69E+00	8.61E+00	3.84E+00	5.36E+00	2.37E+00
7.94E-03	4.15E+00	1.08E+00	3.95E+00	1.11E+01	4.55E+00	5.88E+00	2.58E+00
6.31E-03	4.68E+00	1.19E+00	5.14E+00	1.32E+01	4.90E+00	6.30E+00	2.75E+00
5.01E-03	5.19E+00	1.26E+00	6.62E+00	1.47E+01	5.33E+00	6.58E+00	2.89E+00
4.20E-03	5.57E+00	1.37E+00	7.31E+00	1.60E+01	5.57E+00	7.16E+00	2.97E+00
OPERATION TIME (MIN)	519840	44640	41760	44640	43200	44640	43200

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
5.01E-01	0.00E+00	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.98E-01	1.79E-02	8.96E-03	0.00E+00	1.79E-02	0.00E+00	0.00E+00
3.16E-01	1.79E-02	1.79E-02	0.00E+00	1.79E-02	0.00E+00	0.00E+00
2.51E-01	3.58E-02	4.48E-02	2.78E-02	1.79E-02	0.00E+00	0.00E+00
2.00E-01	3.58E-02	6.27E-02	5.56E-02	3.58E-02	0.00E+00	0.00E+00
1.58E-01	4.48E-02	7.17E-02	7.41E-02	5.38E-02	0.00E+00	0.00E+00
1.26E-01	8.96E-02	9.86E-02	1.39E-01	6.27E-02	0.00E+00	0.00E+00
1.00E-01	1.34E-01	1.97E-01	2.13E-01	9.86E-02	9.24E-03	0.00E+00
7.94E-02	2.24E-01	2.51E-01	3.24E-01	1.61E-01	1.85E-02	0.00E+00
6.31E-02	3.41E-01	4.21E-01	4.81E-01	2.87E-01	3.70E-02	1.07E-02
5.01E-02	4.66E-01	5.65E-01	7.22E-01	4.30E-01	1.39E-01	1.07E-02
3.98E-02	5.47E-01	7.80E-01	9.63E-01	6.99E-01	3.70E-01	1.39E-01
3.16E-02	6.27E-01	1.08E+00	1.25E+00	1.00E+00	7.13E-01	2.78E-01
2.51E-02	6.90E-01	1.39E+00	1.46E+00	1.37E+00	1.51E+00	5.34E-01
2.00E-02	7.89E-01	1.79E+00	1.80E+00	1.84E+00	2.24E+00	1.05E+00
1.58E-02	9.14E-01	2.14E+00	2.08E+00	2.27E+00	2.98E+00	1.41E+00
1.26E-02	1.07E+00	2.57E+00	2.46E+00	2.54E+00	4.24E+00	1.93E+00
1.00E-02	1.12E+00	2.84E+00	2.81E+00	2.95E+00	5.46E+00	2.43E+00
7.94E-03	1.25E+00	3.17E+00	3.03E+00	3.34E+00	6.63E+00	3.03E+00
6.31E-03	1.37E+00	3.49E+00	3.12E+00	3.60E+00	7.41E+00	3.57E+00
5.01E-03	1.44E+00	3.66E+00	3.28E+00	3.94E+00	8.28E+00	4.16E+00
4.20E-03	1.55E+00	3.78E+00	3.34E+00	4.22E+00	8.89E+00	4.50E+00
OPERATION TIME (MIN)	44640	44640	43200	44640	43200	37440

TABLE 9. FREQUENCIES OF 4-MINUTE PRECIPITATION RATES MEASURED IN FREIBURG, GERMANY DURING THE YEAR 1965

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
7.94E-01	7.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-03
6.31E-01	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-02
5.01E-01	6.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-02
3.98E-01	1.29E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-02	6.48E-02
3.16E-01	3.04E-02	1.79E-02	0.00E+00	1.79E-02	3.70E-02	7.17E-02	8.33E-02
2.51E-01	4.49E-02	2.69E-02	0.00E+00	1.79E-02	3.70E-02	1.16E-01	1.02E-01
2.00E-01	6.24E-02	3.58E-02	0.00E+00	1.79E-02	8.33E-02	1.52E-01	1.11E-01
1.58E-01	8.52E-02	3.58E-02	0.00E+00	2.69E-02	1.02E-01	1.97E-01	1.57E-01
1.26E-01	1.35E-01	5.38E-02	0.00E+00	4.48E-02	1.11E-01	3.85E-01	2.13E-01
1.00E-01	2.17E-01	1.08E-01	0.00E+00	8.06E-02	1.39E-01	5.91E-01	3.61E-01
7.94E-02	3.20E-01	1.52E-01	0.00E+00	1.97E-01	2.04E-01	8.33E-01	5.56E-01
6.31E-02	4.92E-01	2.87E-01	1.98E-02	3.23E-01	3.61E-01	1.22E+00	7.87E-01
5.01E-02	7.46E-01	4.93E-01	8.93E-02	6.18E-01	6.39E-01	1.68E+00	1.09E+00
3.98E-02	1.11E+00	7.44E-01	1.79E-01	9.23E-01	9.54E-01	2.23E+00	1.52E+00
3.16E-02	1.59E+00	1.16E+00	4.56E-01	1.42E+00	1.62E+00	2.86E+00	1.99E+00
2.51E-02	2.12E+00	1.75E+00	5.75E-01	1.94E+00	2.30E+00	3.56E+00	2.46E+00
2.00E-02	2.77E+00	2.53E+00	9.42E-01	2.54E+00	3.19E+00	4.48E+00	3.05E+00
1.58E-02	3.56E+00	3.32E+00	1.37E+00	3.63E+00	4.09E+00	5.99E+00	3.80E+00
1.26E-02	4.41E+00	4.20E+00	1.90E+00	4.87E+00	4.97E+00	7.33E+00	4.45E+00
1.00E-02	5.30E+00	5.19E+00	2.35E+00	6.47E+00	6.19E+00	8.41E+00	5.21E+00
7.94E-03	6.24E+00	6.34E+00	2.85E+00	8.29E+00	7.57E+00	9.74E+00	5.66E+00
6.31E-03	7.04E+00	7.44E+00	3.54E+00	9.44E+00	8.71E+00	1.06E+01	6.19E+00
5.01E-03	7.75E+00	8.34E+00	4.22E+00	1.06E+01	9.75E+00	1.13E+01	6.72E+00
4.20E-03	8.25E+00	8.89E+00	4.62E+00	1.13E+01	1.04E+01	1.17E+01	7.24E+00
OPERATION TIME (MIN)	525600	44640	40320	44640	43200	44640	43200

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
6.31E-01	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.01E-01	3.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.98E-01	4.48E-02	1.79E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.16E-01	8.06E-02	2.69E-02	0.00E+00	8.96E-03	1.85E-02	0.00E+00
2.51E-01	1.34E-01	6.27E-02	9.26E-03	8.96E-03	1.85E-02	0.00E+00
2.00E-01	1.52E-01	9.86E-02	1.85E-02	1.79E-02	5.56E-02	0.00E+00
1.58E-01	2.15E-01	1.34E-01	2.78E-02	2.69E-02	8.33E-02	8.96E-03
1.26E-01	3.49E-01	1.88E-01	6.48E-02	3.58E-02	1.30E-01	3.58E-02
1.00E-01	4.84E-01	2.51E-01	2.41E-01	6.27E-02	2.13E-01	5.38E-02
7.94E-02	7.62E-01	2.96E-01	3.98E-01	7.17E-02	2.78E-01	7.17E-02
6.31E-02	1.08E+00	4.57E-01	6.02E-01	7.17E-02	5.37E-01	1.25E-01
5.01E-02	1.37E+00	5.56E-01	1.03E+00	1.43E-01	8.24E-01	3.76E-01
3.98E-02	1.67E+00	8.15E-01	1.89E+00	2.06E-01	1.25E+00	8.96E-01
3.16E-02	2.02E+00	1.16E+00	2.73E+00	2.69E-01	1.62E+00	1.67E+00
2.51E-02	2.54E+00	1.64E+00	3.62E+00	3.85E-01	2.09E+00	2.54E+00
2.00E-02	2.94E+00	2.16E+00	4.67E+00	4.66E-01	2.68E+00	3.55E+00
1.58E-02	3.34E+00	2.51E+00	5.71E+00	5.47E-01	3.55E+00	4.78E+00
1.26E-02	3.78E+00	2.92E+00	6.74E+00	7.17E-01	4.84E+00	6.01E+00
1.00E-02	4.14E+00	3.36E+00	7.66E+00	8.60E-01	6.19E+00	7.39E+00
7.94E-03	4.53E+00	3.94E+00	8.72E+00	9.23E-01	7.54E+00	8.63E+00
6.31E-03	4.96E+00	4.40E+00	9.41E+00	9.95E-01	8.99E+00	9.55E+00
5.01E-03	5.32E+00	4.67E+00	1.01E+01	1.10E+00	1.04E+01	1.05E+01
4.20E-03	5.55E+00	4.97E+00	1.06E+01	1.15E+00	1.11E+01	1.12E+01
OPERATION TIME (MIN)	44640	44640	43200	44640	43200	44640

TABLE 10. FREQUENCIES OF 4-MINUTE PRECIPITATION RATES MEASURED IN FREIBURG GERMANY DURING THE YEARS 1964 AND 1965 COMBINED

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
7.94E-01	3.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-03
6.31E-01	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-03
5.01E-01	4.21E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-03	2.31E-02
3.98E-01	9.18E-03	0.00E+00	0.00E+00	0.00E+00	4.63E-03	1.79E-02	3.24E-02
3.16E-01	2.22E-02	8.96E-03	0.00E+00	8.96E-03	2.78E-02	7.17E-02	5.09E-02
2.51E-01	3.75E-02	1.34E-02	0.00E+00	8.96E-03	3.24E-02	1.43E-01	6.48E-02
2.00E-01	5.51E-02	1.79E-02	0.00E+00	1.34E-02	6.48E-02	2.02E-01	8.80E-02
1.58E-01	7.42E-02	1.79E-02	0.00E+00	2.69E-02	7.87E-02	2.73E-01	1.11E-01
1.26E-01	1.11E-01	2.69E-02	0.00E+00	4.93E-02	8.33E-02	3.99E-01	1.62E-01
1.00E-01	1.79E-01	5.38E-02	0.00E+00	7.62E-02	1.34E-01	5.82E-01	3.01E-01
7.94E-02	2.58E-01	8.51E-02	0.00E+00	1.57E-01	2.18E-01	7.35E-01	4.40E-01
6.31E-02	3.89E-01	1.61E-01	9.75E-03	2.46E-01	3.52E-01	1.03E+00	5.93E-01
5.01E-02	5.87E-01	2.82E-01	4.39E-02	4.70E-01	5.83E-01	1.47E+00	8.06E-01
3.98E-02	8.71E-01	4.39E-01	1.02E-01	7.12E-01	9.72E-01	1.95E+00	1.07E+00
3.16E-02	1.24E+00	6.72E-01	2.83E-01	1.09E+00	1.47E+00	2.59E+00	1.43E+00
2.51E-02	1.68E+00	1.03E+00	3.75E-01	1.65E+00	2.03E+00	3.19E+00	1.86E+00
2.00E-02	2.23E+00	1.49E+00	6.53E-01	2.50E+00	2.72E+00	3.94E+00	2.32E+00
1.58E-02	2.87E+00	1.94E+00	1.10E+00	3.87E+00	3.43E+00	4.98E+00	2.85E+00
1.26E-02	3.60E+00	2.43E+00	1.69E+00	5.55E+00	4.12E+00	6.00E+00	3.25E+00
1.00E-02	4.38E+00	3.03E+00	2.52E+00	7.54E+00	5.01E+00	6.88E+00	3.79E+00
7.94E-03	5.20E+00	3.71E+00	3.41E+00	9.70E+00	6.06E+00	7.81E+00	4.12E+00
6.31E-03	5.87E+00	4.31E+00	4.36E+00	1.13E+01	6.81E+00	8.46E+00	4.47E+00
5.01E-03	6.48E+00	4.80E+00	5.44E+00	1.27E+01	7.54E+00	8.94E+00	4.81E+00
4.20E-03	6.92E+00	5.13E+00	5.99E+00	1.37E+01	7.99E+00	9.45E+00	5.11E+00

OPERATION TIME (MIN)	1045440	89280	82080	89280	86400	89280	86400
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THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
6.31E-01	4.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.01E-01	1.79E-02	4.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.98E-01	3.14E-02	1.34E-02	0.00E+00	8.96E-03	0.00E+00	0.00E+00
3.16E-01	4.93E-02	2.24E-02	0.00E+00	1.34E-02	9.26E-03	0.00E+00
2.51E-01	8.51E-02	5.38E-02	1.85E-02	1.34E-02	9.26E-03	0.00E+00
2.00E-01	9.41E-02	8.06E-02	3.70E-02	2.69E-02	2.78E-02	0.00E+00
1.58E-01	1.30E-01	1.03E-01	5.09E-02	4.03E-02	4.17E-02	4.87E-03
1.26E-01	2.20E-01	1.43E-01	1.02E-01	4.93E-02	6.48E-02	1.95E-02
1.00E-01	3.09E-01	2.24E-01	2.27E-01	8.06E-02	1.11E-01	2.92E-02
7.94E-02	4.93E-01	2.73E-01	3.61E-01	1.16E-01	1.48E-01	3.90E-02
6.31E-02	7.08E-01	4.39E-01	5.42E-01	1.79E-01	2.87E-01	7.31E-02
5.01E-02	9.18E-01	5.60E-01	8.75E-01	2.87E-01	4.81E-01	2.10E-01
3.98E-02	1.11E+00	7.97E-01	1.43E+00	4.53E-01	8.10E-01	5.51E-01
3.16E-02	1.32E+00	1.12E+00	1.99E+00	6.36E-01	1.17E+00	1.03E+00
2.51E-02	1.61E+00	1.51E+00	2.54E+00	8.78E-01	1.80E+00	1.63E+00
2.00E-02	1.86E+00	1.98E+00	3.23E+00	1.15E+00	2.46E+00	2.41E+00
1.58E-02	2.13E+00	2.33E+00	3.90E+00	1.41E+00	3.26E+00	3.25E+00
1.26E-02	2.42E+00	2.75E+00	4.60E+00	1.63E+00	4.54E+00	4.15E+00
1.00E-02	2.63E+00	3.10E+00	5.23E+00	1.90E+00	5.83E+00	5.13E+00
7.94E-03	2.89E+00	3.56E+00	5.87E+00	2.13E+00	7.08E+00	6.08E+00
6.31E-03	3.17E+00	3.94E+00	6.26E+00	2.30E+00	8.20E+00	6.82E+00
5.01E-03	3.38E+00	4.16E+00	6.67E+00	2.52E+00	9.31E+00	7.58E+00
4.20E-03	3.55E+00	4.38E+00	7.00E+00	2.68E+00	1.00E+01	8.15E+00

OPERATION TIME (MIN)	89280	89280	86400	89280	86400	82080
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TABLE 11. FREQUENCIES OF 4-MINUTE PRECIPITATION RATES MEASURED IN NAHA, OKINAWA DURING THE YEAR 1966

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
5.01E+00	7.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.98E+00	7.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.16E+00	7.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.51E+00	1.54E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.98E-03	0.00E+00
2.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-02	0.00E+00
1.58E+00	5.37E-03	0.00E+00	0.00E+00	0.00E+00	9.26E-03	2.70E-02	9.26E-03
1.26E+00	1.46E-02	0.00E+00	9.92E-03	0.00E+00	9.26E-03	5.39E-02	2.78E-02
1.00E+00	2.76E-02	0.00E+00	2.98E-02	0.00E+00	5.56E-02	7.19E-02	4.63E-02
7.94E-01	5.37E-02	0.00E+00	3.97E-02	0.00E+00	7.41E-02	1.44E-01	7.41E-02
6.31E-01	9.75E-02	4.49E-02	5.95E-02	9.27E-03	1.11E-01	2.25E-01	1.30E-01
5.01E-01	1.68E-01	8.08E-02	9.92E-02	9.27E-03	1.57E-01	4.22E-01	2.04E-01
3.98E-01	2.52E-01	1.44E-01	1.39E-01	2.78E-02	1.94E-01	6.38E-01	3.24E-01
3.16E-01	3.45E-01	2.69E-01	1.49E-01	5.56E-02	2.59E-01	8.09E-01	4.26E-01
2.51E-01	4.64E-01	4.58E-01	2.08E-01	1.39E-01	3.24E-01	1.04E+00	4.91E-01
2.00E-01	6.05E-01	5.74E-01	2.88E-01	2.04E-01	3.98E-01	1.46E+00	6.94E-01
1.58E-01	7.69E-01	7.63E-01	3.47E-01	3.34E-01	5.09E-01	1.98E+00	7.87E-01
1.26E-01	1.00E+00	1.11E+00	4.27E-01	4.82E-01	5.83E-01	2.66E+00	1.11E+00
1.00E-01	1.30E+00	1.40E+00	5.16E-01	6.49E-01	9.26E-01	3.48E+00	1.64E+00
7.94E-02	1.71E+00	1.80E+00	5.95E-01	1.01E+00	1.27E+00	4.37E+00	2.37E+00
6.31E-02	2.12E+00	2.41E+00	7.74E-01	1.35E+00	1.59E+00	5.17E+00	3.18E+00
5.01E-02	2.53E+00	2.93E+00	9.82E-01	1.66E+00	1.97E+00	6.10E+00	3.67E+00
3.98E-02	2.94E+00	3.50E+00	1.19E+00	1.89E+00	2.43E+00	6.72E+00	4.22E+00
3.16E-02	3.41E+00	4.14E+00	1.59E+00	2.26E+00	2.90E+00	7.51E+00	4.93E+00
2.51E-02	3.90E+00	4.85E+00	1.89E+00	2.61E+00	3.39E+00	8.12E+00	5.80E+00
2.00E-02	4.43E+00	5.61E+00	2.25E+00	3.07E+00	4.04E+00	8.70E+00	6.83E+00
1.58E-02	4.94E+00	6.18E+00	2.60E+00	3.44E+00	4.73E+00	9.34E+00	7.52E+00
1.26E-02	5.46E+00	6.82E+00	2.96E+00	3.90E+00	5.31E+00	1.02E+01	8.36E+00
1.00E-02	5.91E+00	7.38E+00	3.38E+00	4.13E+00	6.00E+00	1.08E+01	9.11E+00
7.94E-03	6.36E+00	7.92E+00	3.69E+00	4.64E+00	6.50E+00	1.14E+01	9.87E+00
6.31E-03	6.82E+00	8.58E+00	4.20E+00	5.03E+00	7.05E+00	1.21E+01	1.09E+01
5.01E-03	7.19E+00	9.00E+00	4.56E+00	5.21E+00	7.34E+00	1.27E+01	1.17E+01
4.20E-03	7.44E+00	9.47E+00	4.71E+00	5.51E+00	7.56E+00	1.29E+01	1.23E+01
OPERATION TIME (MIN)	520935	44580	40320	43140	43200	44520	43200

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
5.01E+00	0.00E+00	8.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.98E+00	0.00E+00	8.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.16E+00	0.00E+00	8.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.51E+00	0.00E+00	8.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.00E+00	0.00E+00	8.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.58E+00	0.00E+00	8.97E-03	9.26E-03	0.00E+00	0.00E+00	0.00E+00
1.26E+00	0.00E+00	3.59E-02	1.85E-02	0.00E+00	1.98E-02	0.00E+00
1.00E+00	0.00E+00	4.48E-02	5.56E-02	8.96E-03	1.98E-02	0.00E+00
7.94E-01	8.97E-03	1.08E-01	1.20E-01	2.69E-02	3.97E-02	8.96E-03
6.31E-01	7.18E-02	1.79E-01	2.13E-01	3.58E-02	5.95E-02	2.69E-02
5.01E-01	1.17E-01	2.51E-01	4.07E-01	4.48E-02	1.59E-01	6.27E-02
3.98E-01	1.70E-01	3.68E-01	6.20E-01	5.38E-02	2.38E-01	9.86E-02
3.16E-01	2.51E-01	4.66E-01	8.80E-01	6.27E-02	3.77E-01	1.25E-01
2.51E-01	3.05E-01	6.37E-01	1.20E+00	9.86E-02	4.66E-01	1.79E-01
2.00E-01	3.41E-01	7.89E-01	1.56E+00	1.16E-01	5.65E-01	2.60E-01
1.58E-01	4.76E-01	8.88E-01	1.87E+00	1.34E-01	6.55E-01	4.48E-01
1.26E-01	7.00E-01	1.07E+00	2.11E+00	1.43E-01	8.63E-01	6.90E-01
1.00E-01	8.97E-01	1.22E+00	2.53E+00	1.79E-01	1.02E+00	1.11E+00
7.94E-02	1.25E+00	1.53E+00	3.06E+00	1.88E-01	1.25E+00	1.69E+00
6.31E-02	1.56E+00	1.78E+00	3.53E+00	1.97E-01	1.54E+00	2.20E+00
5.01E-02	1.92E+00	2.04E+00	3.99E+00	2.15E-01	1.78E+00	2.97E+00
3.98E-02	2.20E+00	2.67E+00	4.36E+00	2.24E-01	2.06E+00	3.66E+00
3.16E-02	2.57E+00	3.07E+00	4.79E+00	2.74E-01	2.45E+00	4.27E+00
2.51E-02	3.20E+00	3.45E+00	5.09E+00	2.51E-01	2.83E+00	5.03E+00
2.00E-02	3.77E+00	3.76E+00	5.52E+00	3.05E-01	3.33E+00	5.75E+00
1.58E-02	4.24E+00	4.28E+00	5.84E+00	4.03E-01	4.00E+00	6.47E+00
1.26E-02	4.74E+00	4.73E+00	6.06E+00	4.66E-01	4.69E+00	7.08E+00
1.00E-02	5.07E+00	5.18E+00	6.29E+00	5.20E-01	5.28E+00	7.60E+00
7.94E-03	5.42E+00	5.49E+00	6.57E+00	5.56E-01	5.82E+00	8.21E+00
6.31E-03	5.66E+00	5.79E+00	6.82E+00	6.27E-01	6.45E+00	8.51E+00
5.01E-03	5.89E+00	6.11E+00	7.02E+00	7.17E-01	6.84E+00	8.99E+00
4.20E-03	6.12E+00	6.36E+00	7.23E+00	7.26E-01	7.09E+00	9.14E+00
OPERATION TIME (MIN)	44575	44600	43200	44640	40320	44640

TABLE 12. FREQUENCIES OF 4-MINUTE PRECIPITATION RATES MEASURED IN NAHA, OKINAWA DURING THE YEAR 1967

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
2.51E+00	8.10E-04	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.00E+00	3.24E-03	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.58E+00	5.67E-03	8.96E-03	0.00E+00	1.79E-02	0.00E+00	1.39E-02	0.00E+00
1.26E+00	1.13E-02	8.96E-03	0.00E+00	2.69E-02	0.00E+00	2.78E-02	2.53E-02
1.00E+00	1.70E-02	8.96E-03	0.00E+00	5.38E-02	0.00E+00	5.56E-02	3.79E-02
7.94E-01	3.16E-02	8.96E-03	0.00E+00	8.96E-02	1.85E-02	6.94E-02	7.58E-02
6.31E-01	4.13E-02	1.79E-02	9.93E-03	8.96E-02	3.70E-02	8.33E-02	1.14E-01
5.01E-01	6.48E-02	2.69E-02	1.99E-02	1.08E-01	9.26E-02	1.39E-01	1.52E-01
3.98E-01	8.99E-02	2.69E-02	1.99E-02	1.08E-01	1.20E-01	1.81E-01	2.02E-01
3.16E-01	1.17E-01	4.48E-02	3.97E-02	1.08E-01	1.20E-01	2.64E-01	2.65E-01
2.51E-01	1.54E-01	6.27E-02	4.96E-02	1.16E-01	1.57E-01	3.47E-01	3.41E-01
2.00E-01	2.11E-01	1.43E-01	4.96E-02	1.61E-01	2.13E-01	4.58E-01	4.17E-01
1.58E-01	2.80E-01	2.78E-01	5.96E-02	2.60E-01	2.87E-01	5.42E-01	5.43E-01
1.26E-01	3.95E-01	4.39E-01	1.09E-01	2.96E-01	4.07E-01	6.11E-01	7.70E-01
1.00E-01	5.60E-01	5.82E-01	1.49E-01	3.67E-01	6.48E-01	7.64E-01	1.24E+00
7.94E-02	7.48E-01	7.08E-01	2.78E-01	4.21E-01	8.98E-01	9.31E-01	1.76E+00
6.31E-02	9.47E-01	8.51E-01	4.07E-01	5.11E-01	1.09E+00	1.10E+00	2.53E+00
5.01E-02	1.17E+00	9.77E-01	5.56E-01	6.36E-01	1.39E+00	1.37E+00	3.04E+00
3.98E-02	1.38E+00	1.16E+00	6.55E-01	7.71E-01	1.66E+00	1.58E+00	3.41E+00
3.16E-02	1.62E+00	1.33E+00	8.64E-01	9.14E-01	1.94E+00	1.74E+00	3.86E+00
2.51E-02	1.92E+00	1.51E+00	1.16E+00	1.02E+00	2.49E+00	2.00E+00	4.26E+00
2.00E-02	2.24E+00	1.79E+00	1.40E+00	1.16E+00	2.91E+00	2.17E+00	4.84E+00
1.58E-02	2.51E+00	2.12E+00	1.70E+00	1.25E+00	3.31E+00	2.32E+00	5.08E+00
1.26E-02	2.82E+00	2.46E+00	1.88E+00	1.40E+00	3.66E+00	2.54E+00	5.40E+00
1.00E-02	3.08E+00	2.76E+00	2.20E+00	1.55E+00	3.89E+00	2.81E+00	5.73E+00
7.94E-03	3.36E+00	3.04E+00	2.46E+00	1.77E+00	4.22E+00	2.99E+00	6.06E+00
6.31E-03	3.58E+00	3.40E+00	2.63E+00	1.85E+00	4.47E+00	3.21E+00	6.24E+00
5.01E-03	3.78E+00	3.60E+00	2.84E+00	1.91E+00	4.64E+00	3.39E+00	6.43E+00
4.20E-03	3.94E+00	3.78E+00	3.05E+00	1.99E+00	4.78E+00	3.53E+00	6.59E+00
OPERATION TIME (MIN)	493830	44640	40300	44640	43200	28800	31680

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	JUL	AUG	SEP	OCT	NOV	DEC	
2.00E+00	0.00E+00	9.27E-03	0.00E+00	8.96E-03	9.26E-03	0.00E+00	
1.58E+00	0.00E+00	9.27E-03	0.00E+00	8.96E-03	9.26E-03	0.00E+00	
1.26E+00	0.00E+00	1.85E-02	0.00E+00	2.69E-02	9.26E-03	0.00E+00	
1.00E+00	0.00E+00	1.85E-02	0.00E+00	3.58E-02	9.26E-03	0.00E+00	
7.94E-01	0.00E+00	6.49E-02	9.26E-03	4.48E-02	1.85E-02	0.00E+00	
6.31E-01	0.00E+00	9.27E-02	9.26E-03	5.38E-02	1.85E-02	0.00E+00	
5.01E-01	9.26E-03	1.39E-01	2.78E-02	8.06E-02	2.78E-02	0.00E+00	
3.98E-01	1.85E-02	1.95E-01	6.48E-02	1.61E-01	3.70E-02	0.00E+00	
3.16E-01	2.78E-02	2.50E-01	8.33E-02	2.24E-01	4.63E-02	9.26E-03	
2.51E-01	4.63E-02	2.97E-01	9.26E-02	3.41E-01	7.41E-02	2.78E-02	
2.00E-01	8.33E-02	3.62E-01	1.39E-01	5.02E-01	8.33E-02	4.63E-02	
1.58E-01	1.11E-01	4.08E-01	1.57E-01	6.54E-01	1.11E-01	8.33E-02	
1.26E-01	2.22E-01	4.64E-01	1.94E-01	1.03E+00	1.48E-01	1.85E-01	
1.00E-01	2.69E-01	5.75E-01	2.31E-01	1.51E+00	2.41E-01	3.33E-01	
7.94E-02	3.61E-01	6.86E-01	2.59E-01	2.06E+00	3.06E-01	5.83E-01	
6.31E-02	4.26E-01	8.63E-01	3.15E-01	2.59E+00	3.61E-01	7.22E-01	
5.01E-02	5.37E-01	1.06E+00	3.98E-01	3.22E+00	4.07E-01	9.44E-01	
3.98E-02	7.04E-01	1.20E+00	5.00E-01	3.76E+00	5.00E-01	1.16E+00	
3.16E-02	7.96E-01	1.37E+00	6.76E-01	4.41E+00	6.02E-01	1.48E+00	
2.51E-02	9.44E-01	1.57E+00	8.70E-01	5.09E+00	7.13E-01	1.93E+00	
2.00E-02	1.06E+00	1.79E+00	1.16E+00	5.70E+00	9.26E-01	2.48E+00	
1.58E-02	1.26E+00	2.02E+00	1.41E+00	6.16E+00	1.01E+00	3.02E+00	
1.26E-02	1.35E+00	2.24E+00	1.79E+00	6.72E+00	1.29E+00	3.57E+00	
1.00E-02	1.50E+00	2.36E+00	1.99E+00	7.26E+00	1.42E+00	4.03E+00	
7.94E-03	1.60E+00	2.53E+00	2.30E+00	7.73E+00	1.64E+00	4.39E+00	
6.31E-03	1.72E+00	2.70E+00	2.54E+00	8.14E+00	1.79E+00	4.73E+00	
5.01E-03	1.80E+00	2.87E+00	2.73E+00	8.49E+00	1.87E+00	5.19E+00	
4.20E-03	1.88E+00	3.02E+00	2.97E+00	8.70E+00	1.95E+00	5.42E+00	
OPERATION TIME (MIN)	43200	43130	43200	44640	43200	43200	

TABLE 13. FREQUENCIES OF 4-MINUTE PRECIPITATION RATES MEASURED IN NAHA, OKINAWA DURING THE YEARS 1966 AND 1967 COMBINED

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
5.01E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.98E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.16E+00	3.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.51E+00	1.18E-03	4.48E-03	0.00E+00	0.00E+00	0.00E+00	5.46E-03	0.00E+00
2.00E+00	2.76E-03	4.48E-03	0.00E+00	0.00E+00	0.00E+00	1.09E-02	0.00E+00
1.58E+00	5.52E-03	4.48E-03	0.00E+00	9.11E-03	4.63E-03	2.18E-02	5.34E-03
1.26E+00	1.30E-02	4.48E-03	4.96E-03	1.37E-02	4.63E-03	4.36E-02	2.67E-02
1.00E+00	2.25E-02	4.48E-03	1.49E-02	2.73E-02	2.78E-02	6.55E-02	4.27E-02
7.94E-01	4.30E-02	4.48E-03	1.98E-02	4.56E-02	4.63E-02	1.15E-01	7.48E-02
6.31E-01	7.02E-02	3.14E-02	3.47E-02	5.01E-02	7.41E-02	1.69E-01	1.23E-01
5.01E-01	1.18E-01	5.38E-02	5.95E-02	5.92E-02	1.25E-01	3.11E-01	1.82E-01
3.98E-01	1.73E-01	8.52E-02	7.94E-02	6.84E-02	1.57E-01	4.58E-01	2.72E-01
3.16E-01	2.34E-01	1.57E-01	9.43E-02	8.20E-02	1.90E-01	5.95E-01	3.58E-01
2.51E-01	3.13E-01	2.60E-01	1.29E-01	1.28E-01	2.41E-01	7.69E-01	4.27E-01
2.00E-01	4.13E-01	3.59E-01	1.69E-01	1.82E-01	3.06E-01	1.06E+00	5.77E-01
1.58E-01	5.31E-01	5.20E-01	2.03E-01	2.96E-01	3.98E-01	1.41E+00	6.84E-01
1.26E-01	7.06E-01	7.76E-01	2.68E-01	3.87E-01	4.95E-01	1.85E+00	9.67E-01
1.00E-01	9.42E-01	9.91E-01	3.32E-01	5.06E-01	7.87E-01	2.41E+00	1.47E+00
7.94E-02	1.24E+00	1.26E+00	4.37E-01	7.11E-01	1.08E+00	3.02E+00	2.11E+00
6.31E-02	1.55E+00	1.63E+00	5.90E-01	9.25E-01	1.34E+00	3.57E+00	2.90E+00
5.01E-02	1.87E+00	1.95E+00	7.69E-01	1.14E+00	1.68E+00	4.24E+00	3.40E+00
3.98E-02	2.18E+00	2.33E+00	9.23E-01	1.32E+00	2.04E+00	4.70E+00	3.88E+00
3.16E-02	2.54E+00	2.73E+00	1.23E+00	1.58E+00	2.42E+00	5.24E+00	4.48E+00
2.51E-02	2.93E+00	3.17E+00	1.53E+00	1.80E+00	2.94E+00	5.72E+00	5.14E+00
2.00E-02	3.36E+00	3.70E+00	1.83E+00	2.10E+00	3.47E+00	6.13E+00	5.99E+00
1.58E-02	3.76E+00	4.15E+00	2.15E+00	2.32E+00	4.02E+00	6.58E+00	6.49E+00
1.26E-02	4.18E+00	4.64E+00	2.42E+00	2.63E+00	4.48E+00	7.20E+00	7.11E+00
1.00E-02	4.54E+00	5.07E+00	2.79E+00	2.82E+00	4.94E+00	7.65E+00	7.68E+00
7.94E-03	4.90E+00	5.48E+00	3.08E+00	3.18E+00	5.36E+00	8.10E+00	8.26E+00
6.31E-03	5.25E+00	5.99E+00	3.41E+00	3.41E+00	5.76E+00	8.59E+00	8.93E+00
5.01E-03	5.53E+00	6.30E+00	3.70E+00	3.53E+00	5.99E+00	9.03E+00	9.50E+00
4.20E-03	5.74E+00	6.62E+00	3.88E+00	3.72E+00	6.17E+00	9.25E+00	9.87E+00
OPERATION TIME (MIN)	1014765	89220	80620	87780	86400	73320	74880

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
5.01E+00	0.00E+00	4.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.98E+00	0.00E+00	4.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.16E+00	0.00E+00	4.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.51E+00	0.00E+00	4.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.00E+00	0.00E+00	9.12E-03	0.00E+00	4.48E-03	4.79E-03	0.00E+00
1.58E+00	0.00E+00	9.12E-03	4.63E-03	4.48E-03	4.79E-03	0.00E+00
1.26E+00	0.00E+00	2.74E-02	9.26E-03	1.34E-02	1.44E-02	0.00E+00
1.00E+00	0.00E+00	3.19E-02	2.78E-02	2.24E-02	1.44E-02	0.00E+00
7.94E-01	4.56E-03	8.66E-02	6.48E-02	3.58E-02	2.87E-02	4.55E-03
6.31E-01	3.65E-02	1.37E-01	1.11E-01	4.48E-02	3.83E-02	1.37E-02
5.01E-01	6.38E-02	1.96E-01	2.18E-01	6.27E-02	9.10E-02	3.19E-02
3.98E-01	9.57E-02	2.83E-01	3.43E-01	1.08E-01	1.34E-01	5.01E-02
3.16E-01	1.41E-01	3.60E-01	4.81E-01	1.43E-01	2.06E-01	8.83E-02
2.51E-01	1.78E-01	4.70E-01	6.48E-01	2.20E-01	2.63E-01	1.05E-01
2.00E-01	2.14E-01	5.79E-01	8.47E-01	3.09E-01	3.16E-01	1.55E-01
1.58E-01	2.96E-01	6.52E-01	1.01E+00	3.94E-01	3.74E-01	2.69E-01
1.26E-01	4.65E-01	7.71E-01	1.15E+00	5.87E-01	4.93E-01	4.42E-01
1.00E-01	5.88E-01	9.03E-01	1.38E+00	8.47E-01	6.18E-01	7.29E-01
7.94E-02	8.11E-01	1.12E+00	1.66E+00	1.12E+00	7.61E-01	1.15E+00
6.31E-02	1.00E+00	1.33E+00	1.92E+00	1.39E+00	9.29E-01	1.47E+00
5.01E-02	1.24E+00	1.56E+00	2.19E+00	1.72E+00	1.07E+00	1.98E+00
3.98E-02	1.46E+00	1.95E+00	2.43E+00	1.99E+00	1.25E+00	2.43E+00
3.16E-02	1.70E+00	2.23E+00	2.73E+00	2.32E+00	1.49E+00	2.90E+00
2.51E-02	2.09E+00	2.53E+00	2.98E+00	2.67E+00	1.73E+00	3.50E+00
2.00E-02	2.44E+00	2.79E+00	3.34E+00	3.00E+00	2.09E+00	4.14E+00
1.58E-02	2.77E+00	3.17E+00	3.62E+00	3.28E+00	2.45E+00	4.77E+00
1.26E-02	3.07E+00	3.51E+00	3.92E+00	3.59E+00	2.93E+00	5.36E+00
1.00E-02	3.31E+00	3.79E+00	4.14E+00	3.89E+00	3.28E+00	5.84E+00
7.94E-03	3.54E+00	4.04E+00	4.44E+00	4.14E+00	3.66E+00	6.33E+00
6.31E-03	3.72E+00	4.27E+00	4.68E+00	4.38E+00	4.04E+00	6.65E+00
5.01E-03	3.87E+00	4.51E+00	4.87E+00	4.61E+00	4.27E+00	7.12E+00
4.20E-03	4.03E+00	4.72E+00	5.10E+00	4.71E+00	4.43E+00	7.31E+00
OPERATION TIME (MIN)	87775	87730	86400	89260	83520	87840

TABLE 14. FREQUENCIES OF 4-MINUTE PRECIPITATION RATES MEASURED IN ALBUQUERQUE,
NEW MEXICO DURING THE YEAR 1952

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
1.26E+00	7.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00E+00	7.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7.94E-01	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
6.31E-01	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
5.01E-01	3.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-03	0.00E+00
3.98E-01	4.59E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-03	9.26E-03
3.16E-01	9.95E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-02	1.85E-02
2.51E-01	1.68E-02	0.00E+00	0.00E+00	0.00E+00	9.26E-03	1.79E-02	4.63E-02
2.00E-01	2.83E-02	0.00E+00	9.58E-03	8.96E-03	1.85E-02	2.69E-02	7.41E-02
1.58E-01	4.36E-02	0.00E+00	9.58E-03	8.96E-03	2.78E-02	2.69E-02	1.39E-01
1.26E-01	7.12E-02	8.96E-03	9.58E-03	8.96E-03	7.41E-02	3.58E-02	2.59E-01
1.00E-01	9.41E-02	1.79E-02	1.92E-02	1.79E-02	9.26E-02	6.27E-02	3.89E-01
7.94E-02	1.32E-01	2.69E-02	1.92E-02	6.27E-02	1.94E-01	6.27E-02	4.35E-01
6.31E-02	1.78E-01	2.69E-02	2.87E-02	7.17E-02	2.69E-01	1.16E-01	5.83E-01
5.01E-02	2.34E-01	3.58E-02	3.83E-02	1.61E-01	3.52E-01	1.97E-01	6.57E-01
3.98E-02	2.94E-01	4.48E-02	6.70E-02	2.78E-01	4.07E-01	2.69E-01	8.15E-01
3.16E-02	3.84E-01	1.34E-01	1.15E-01	4.12E-01	5.56E-01	3.76E-01	9.07E-01
2.51E-02	4.73E-01	1.79E-01	1.63E-01	5.91E-01	7.31E-01	4.75E-01	1.01E+00
2.00E-02	5.50E-01	2.51E-01	1.82E-01	6.45E-01	7.69E-01	4.93E-01	1.08E+00
1.58E-02	6.34E-01	3.32E-01	2.39E-01	8.15E-01	8.61E-01	5.73E-01	1.19E+00
1.26E-02	7.25E-01	3.58E-01	2.78E-01	9.86E-01	1.01E+00	7.26E-01	1.31E+00
1.00E-02	8.03E-01	3.94E-01	4.89E-01	1.05E+00	1.02E+00	8.24E-01	1.45E+00
7.94E-03	8.91E-01	4.30E-01	6.32E-01	1.07E+00	1.10E+00	9.05E-01	1.46E+00
6.31E-03	9.66E-01	4.75E-01	6.90E-01	1.24E+00	1.12E+00	9.14E-01	1.56E+00
5.01E-03	1.00E+00	4.84E-01	7.76E-01	1.30E+00	1.19E+00	9.41E-01	1.61E+00
4.20E-03	1.04E+00	4.93E-01	9.58E-01	1.32E+00	1.19E+00	9.59E-01	1.62E+00

OPERATION TIME (MIN)	522720	44640	41760	44640	43200	44640	43200
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THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
1.26E+00	8.96E-03	0.00E+00	0.00E+00		0.00E+00	0.00E+00
1.00E+00	8.96E-03	0.00E+00	0.00E+00		0.00E+00	0.00E+00
7.94E-01	1.79E-02	0.00E+00	0.00E+00		0.00E+00	0.00E+00
6.31E-01	1.79E-02	0.00E+00	0.00E+00		0.00E+00	0.00E+00
5.01E-01	2.69E-02	8.96E-03	0.00E+00		0.00E+00	0.00E+00
3.98E-01	2.69E-02	8.96E-03	0.00E+00		0.00E+00	0.00E+00
3.16E-01	6.27E-02	1.79E-02	0.00E+00		0.00E+00	0.00E+00
2.51E-01	9.86E-02	2.69E-02	0.00E+00		0.00E+00	0.00E+00
2.00E-01	1.16E-01	7.17E-02	0.00E+00		1.03E-02	0.00E+00
1.58E-01	1.97E-01	8.96E-02	9.26E-03		1.03E-02	0.00E+00
1.26E-01	3.14E-01	9.86E-02	9.26E-03		2.06E-02	8.96E-03
1.00E-01	3.58E-01	1.16E-01	9.26E-03		3.09E-02	8.96E-03
7.94E-02	4.21E-01	2.24E-01	3.70E-02		3.09E-02	5.38E-02
6.31E-02	5.29E-01	3.05E-01	6.48E-02		5.14E-02	7.17E-02
5.01E-02	6.27E-01	4.03E-01	1.30E-01		7.20E-02	1.16E-01
3.98E-02	6.36E-01	4.66E-01	2.13E-01		1.85E-01	1.34E-01
3.16E-02	7.89E-01	5.65E-01	2.96E-01		2.78E-01	1.70E-01
2.51E-02	8.96E-01	6.54E-01	3.61E-01		3.40E-01	2.60E-01
2.00E-02	1.05E+00	1.01E+00	3.89E-01		3.70E-01	3.32E-01
1.58E-02	1.18E+00	1.08E+00	4.63E-01		4.42E-01	3.94E-01
1.26E-02	1.26E+00	1.31E+00	4.63E-01		4.42E-01	5.11E-01
1.00E-02	1.34E+00	1.45E+00	5.46E-01		4.73E-01	5.65E-01
7.94E-03	1.42E+00	1.73E+00	7.41E-01		5.14E-01	6.54E-01
6.31E-03	1.53E+00	1.90E+00	7.87E-01		5.25E-01	8.06E-01
5.01E-03	1.55E+00	1.91E+00	8.06E-01		5.35E-01	8.60E-01
4.20E-03	1.55E+00	2.09E+00	8.15E-01		5.35E-01	8.60E-01

NO MEASURABLE RAINFALL THIS MONTH

OPERATION TIME (MIN)	44640	44640	43200	44640	38880	44640
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TABLE 15. FREQUENCIES OF 4-MINUTE PRECIPITATION RATES MEASURED IN BISMARCK, NORTH DAKOTA DURING THE YEAR 1966

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
1.58E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-03
1.26E+00	2.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-03
1.00E+00	3.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-03
7.94E-01	6.85E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-02
6.31E-01	1.14E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.63E-02
5.01E-01	1.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.56E-02
3.98E-01	2.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-01
3.16E-01	3.04E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-01
2.51E-01	4.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-01
2.00E-01	4.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-01
1.58E-01	6.32E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-02	2.50E-01
1.26E-01	9.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-02	3.33E-01
1.00E-01	1.23E-01	0.00E+00	0.00E+00	0.00E+00	5.56E-02	2.69E-02	4.26E-01
7.94E-02	1.72E-01	0.00E+00	0.00E+00	0.00E+00	9.26E-02	5.38E-02	5.74E-01
6.31E-02	2.28E-01	0.00E+00	0.00E+00	0.00E+00	2.04E-01	6.27E-02	7.31E-01
5.01E-02	3.15E-01	8.96E-03	9.92E-03	2.24E-01	3.24E-01	1.08E-01	9.35E-01
3.98E-02	4.25E-01	2.69E-02	2.98E-02	5.11E-01	4.91E-01	1.34E-01	1.18E+00
3.16E-02	5.43E-01	3.58E-02	1.49E-01	7.44E-01	5.93E-01	2.15E-01	1.47E+00
2.51E-02	7.18E-01	1.34E-01	2.68E-01	1.37E+00	8.15E-01	4.30E-01	1.61E+00
2.00E-02	8.98E-01	2.15E-01	4.17E-01	2.18E+00	1.05E+00	6.63E-01	1.71E+00
1.58E-02	1.07E+00	2.42E-01	5.56E-01	2.66E+00	1.20E+00	1.08E+00	1.84E+00
1.26E-02	1.25E+00	2.42E-01	8.93E-01	3.15E+00	1.44E+00	1.43E+00	1.95E+00
1.00E-02	1.47E+00	4.30E-01	1.06E+00	3.94E+00	1.60E+00	1.81E+00	2.17E+00
7.94E-03	1.73E+00	5.73E-01	1.27E+00	4.61E+00	2.25E+00	2.09E+00	2.37E+00
6.31E-03	1.96E+00	7.44E-01	1.37E+00	5.26E+00	2.57E+00	2.42E+00	2.50E+00
5.01E-03	2.15E+00	8.15E-01	1.38E+00	5.57E+00	3.24E+00	2.87E+00	2.62E+00
4.20E-03	2.35E+00	1.16E+00	1.51E+00	5.80E+00	3.56E+00	3.19E+00	2.78E+00

OPERATION TIME (MIN)	525600	44640	40320	44640	43200	44640	43200
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THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	JUL	AUG	SEP	OCT	NOV	DEC	
1.58E+00	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1.26E+00	1.79E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
1.00E+00	2.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
7.94E-01	5.38E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
6.31E-01	8.96E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
5.01E-01	1.16E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3.98E-01	1.97E-01	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
3.16E-01	2.24E-01	8.96E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
2.51E-01	2.51E-01	2.69E-02	1.85E-02	0.00E+00	0.00E+00	0.00E+00	
2.00E-01	3.05E-01	3.58E-02	2.78E-02	0.00E+00	0.00E+00	0.00E+00	
1.58E-01	3.85E-01	5.38E-02	4.63E-02	0.00E+00	0.00E+00	0.00E+00	
1.26E-01	4.30E-01	1.97E-01	9.26E-02	0.00E+00	0.00E+00	0.00E+00	
1.00E-01	5.02E-01	3.14E-01	1.39E-01	0.00E+00	0.00E+00	0.00E+00	
7.94E-02	5.73E-01	5.38E-01	2.22E-01	0.00E+00	0.00E+00	0.00E+00	
6.31E-02	6.18E-01	7.97E-01	2.59E-01	4.48E-02	0.00E+00	0.00E+00	
5.01E-02	7.08E-01	1.02E+00	2.87E-01	1.34E-01	0.00E+00	0.00E+00	
3.98E-02	8.87E-01	1.21E+00	3.98E-01	2.06E-01	9.26E-03	0.00E+00	
3.16E-02	1.00E+00	1.38E+00	4.72E-01	3.67E-01	6.48E-02	0.00E+00	
2.51E-02	1.24E+00	1.45E+00	5.83E-01	5.11E-01	1.30E-01	3.58E-02	
2.00E-02	1.46E+00	1.57E+00	6.39E-01	5.73E-01	1.76E-01	8.06E-02	
1.58E-02	1.61E+00	1.74E+00	7.04E-01	6.72E-01	2.41E-01	1.88E-01	
1.26E-02	1.80E+00	1.98E+00	8.43E-01	7.44E-01	3.24E-01	2.06E-01	
1.00E-02	1.93E+00	2.08E+00	9.07E-01	9.14E-01	4.17E-01	3.23E-01	
7.94E-03	2.08E+00	2.20E+00	9.72E-01	1.25E+00	6.02E-01	4.66E-01	
6.31E-03	2.26E+00	2.41E+00	1.01E+00	1.49E+00	8.70E-01	5.29E-01	
5.01E-03	2.33E+00	2.54E+00	1.09E+00	1.68E+00	1.00E+00	5.38E-01	
4.20E-03	2.53E+00	2.78E+00	1.23E+00	1.79E+00	1.15E+00	5.82E-01	

OPERATION TIME (MIN)	44640	44640	43200	44640	43200	44640
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TABLE 16. FREQUENCIES OF 4-MINUTE PRECIPITATION RATES MEASURED IN SEATTLE, WASHINGTON DURING THE YEAR 1965

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
3.98E-01	1.52E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-03	0.00E+00
3.16E-01	4.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-02	9.26E-03
2.51E-01	7.61E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-02	9.26E-03
2.00E-01	1.67E-02	1.79E-02	0.00E+00	0.00E+00	2.78E-02	6.27E-02	9.26E-03
1.58E-01	2.74E-02	3.58E-02	0.00E+00	0.00E+00	6.48E-02	6.27E-02	9.26E-03
1.26E-01	4.87E-02	9.86E-02	2.98E-02	0.00E+00	1.02E-01	8.06E-02	9.26E-03
1.00E-01	1.16E-01	2.24E-01	7.94E-02	0.00E+00	2.22E-01	1.43E-01	9.26E-03
7.94E-02	2.69E-01	4.84E-01	2.18E-01	0.00E+00	4.63E-01	3.23E-01	6.48E-02
6.31E-02	4.75E-01	7.17E-01	6.35E-01	1.79E-02	8.15E-01	4.93E-01	7.41E-02
5.01E-02	7.83E-01	1.23E+00	1.15E+00	2.69E-02	1.30E+00	5.82E-01	1.02E-01
3.98E-02	1.20E+00	1.98E+00	1.84E+00	1.79E-01	2.07E+00	7.17E-01	1.85E-01
3.16E-02	1.67E+00	2.63E+00	2.93E+00	2.15E-01	2.73E+00	9.23E-01	2.59E-01
2.51E-02	2.23E+00	3.51E+00	3.90E+00	4.12E-01	3.48E+00	1.23E+00	3.33E-01
2.00E-02	2.81E+00	4.33E+00	4.87E+00	8.42E-01	4.37E+00	1.43E+00	5.19E-01
1.58E-02	3.34E+00	5.63E+00	5.74E+00	1.11E+00	4.94E+00	1.67E+00	6.57E-01
1.26E-02	3.91E+00	7.19E+00	6.54E+00	1.40E+00	5.41E+00	1.82E+00	8.15E-01
1.00E-02	4.43E+00	8.33E+00	7.15E+00	1.54E+00	5.74E+00	2.11E+00	1.22E+00
7.94E-03	4.89E+00	9.19E+00	7.86E+00	1.77E+00	6.39E+00	2.26E+00	1.38E+00
6.31E-03	5.23E+00	9.96E+00	8.51E+00	1.83E+00	6.82E+00	2.46E+00	1.41E+00
5.01E-03	5.65E+00	1.10E+01	9.49E+00	1.93E+00	7.09E+00	2.72E+00	1.56E+00
4.20E-03	5.79E+00	1.16E+01	9.73E+00	2.03E+00	7.31E+00	2.73E+00	1.56E+00
OPERATION TIME (MIN)	525600	44640	40320	44640	43200	44640	43200

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
3.98E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-03
3.16E-01	0.00E+00	8.96E-03	0.00E+00	0.00E+00	9.26E-03	8.96E-03
2.51E-01	0.00E+00	1.79E-02	0.00E+00	0.00E+00	9.26E-03	8.96E-03
2.00E-01	0.00E+00	2.69E-02	0.00E+00	2.69E-02	1.85E-02	8.96E-03
1.58E-01	0.00E+00	3.58E-02	0.00E+00	4.48E-02	2.78E-02	4.48E-02
1.26E-01	0.00E+00	6.27E-02	0.00E+00	9.86E-02	2.78E-02	7.17E-02
1.00E-01	0.00E+00	1.43E-01	9.26E-03	9.86E-02	2.59E-01	2.06E-01
7.94E-02	8.96E-03	2.51E-01	1.85E-02	2.42E-01	4.91E-01	6.63E-01
6.31E-02	2.69E-02	4.03E-01	4.63E-02	4.66E-01	7.13E-01	1.30E+00
5.01E-02	4.48E-02	8.33E-01	1.30E-01	7.53E-01	1.35E+00	1.93E+00
3.98E-02	5.38E-02	1.27E+00	1.67E-01	1.10E+00	1.95E+00	2.95E+00
3.16E-02	1.08E-01	1.56E+00	2.69E-01	1.42E+00	3.07E+00	4.04E+00
2.51E-02	2.87E-01	1.91E+00	3.24E-01	2.07E+00	4.21E+00	5.20E+00
2.00E-02	3.58E-01	2.16E+00	4.35E-01	2.55E+00	5.66E+00	6.33E+00
1.58E-02	4.21E-01	2.47E+00	6.02E-01	3.05E+00	6.71E+00	7.33E+00
1.26E-02	5.91E-01	2.61E+00	6.39E-01	3.35E+00	8.13E+00	8.66E+00
1.00E-02	7.35E-01	2.70E+00	8.52E-01	3.83E+00	9.17E+00	1.00E+01
7.94E-03	8.87E-01	2.86E+00	8.98E-01	4.09E+00	1.01E+01	1.12E+01
6.31E-03	9.41E-01	3.06E+00	9.81E-01	4.31E+00	1.09E+01	1.19E+01
5.01E-03	1.08E+00	3.45E+00	1.07E+00	4.60E+00	1.12E+01	1.30E+01
4.20E-03	1.09E+00	3.45E+00	1.09E+00	4.60E+00	1.13E+01	1.34E+01
OPERATION TIME (MIN)	44640	44640	43200	44640	43200	44640

TABLE 17. FREQUENCIES OF 1-MINUTE PRECIPITATION RATES MEASURED IN URBANA, ILLINOIS FROM MAY 1969 THROUGH APRIL 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
2.51E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.58E+00	4.10E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-03
1.26E+00	6.44E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.06E-03
1.00E+00	9.95E-03	0.00E+00	2.48E-03	4.70E-03	0.00E+00	0.00E+00	7.06E-03
7.94E-01	1.38E-02	0.00E+00	2.48E-03	4.70E-03	0.00E+00	0.00E+00	1.18E-02
6.31E-01	1.79E-02	0.00E+00	2.48E-03	1.41E-02	0.00E+00	4.48E-03	1.41E-02
5.01E-01	2.91E-02	0.00E+00	2.48E-03	1.65E-02	0.00E+00	3.58E-02	1.65E-02
3.98E-01	4.31E-02	0.00E+00	2.48E-03	1.65E-02	2.71E-03	4.70E-02	1.88E-02
3.16E-01	6.14E-02	0.00E+00	2.48E-03	2.12E-02	1.09E-02	6.05E-02	2.35E-02
2.51E-01	8.07E-02	0.00E+00	2.48E-03	3.06E-02	3.53E-02	7.17E-02	2.35E-02
2.00E-01	1.02E-01	0.00E+00	2.48E-03	4.70E-02	7.87E-02	8.74E-02	2.82E-02
1.58E-01	1.42E-01	0.00E+00	4.96E-03	9.17E-02	1.25E-01	1.01E-01	4.24E-02
1.26E-01	2.05E-01	0.00E+00	4.96E-03	1.34E-01	2.96E-01	1.16E-01	6.83E-02
1.00E-01	2.90E-01	0.00E+00	4.96E-03	2.28E-01	4.83E-01	1.64E-01	1.22E-01
7.94E-02	3.98E-01	0.00E+00	7.44E-03	2.82E-01	6.84E-01	2.06E-01	1.62E-01
6.31E-02	5.29E-01	0.00E+00	1.24E-02	3.60E-01	8.55E-01	2.71E-01	2.68E-01
5.01E-02	6.59E-01	0.00E+00	3.72E-02	4.63E-01	1.06E+00	4.19E-01	4.40E-01
3.98E-02	8.39E-01	0.00E+00	1.31E-01	5.74E-01	1.42E+00	5.49E-01	6.14E-01
3.16E-02	1.04E+00	3.94E-02	3.27E-01	8.25E-01	1.67E+00	7.10E-01	7.89E-01
2.51E-02	1.26E+00	1.44E-01	5.08E-01	1.09E+00	2.24E+00	8.96E-01	9.53E-01
2.00E-02	1.52E+00	3.56E-01	8.26E-01	1.55E+00	2.59E+00	1.10E+00	1.14E+00
1.58E-02	1.77E+00	4.58E-01	1.19E+00	1.96E+00	2.90E+00	1.23E+00	1.33E+00
1.26E-02	2.05E+00	7.57E-01	1.54E+00	2.77E+00	3.18E+00	1.36E+00	1.56E+00
1.00E-02	2.36E+00	9.17E-01	2.17E+00	3.23E+00	3.54E+00	1.59E+00	1.77E+00
7.94E-03	2.65E+00	1.06E+00	2.56E+00	3.57E+00	3.91E+00	1.75E+00	2.04E+00
6.31E-03	2.90E+00	1.41E+00	2.78E+00	4.22E+00	4.34E+00	1.89E+00	2.19E+00
5.01E-03	3.17E+00	1.99E+00	3.21E+00	4.81E+00	4.73E+00	2.05E+00	2.35E+00
4.20E-03	3.34E+00	2.24E+00	3.57E+00	5.01E+00	5.05E+00	2.10E+00	2.42E+00
OPERATION TIME (MIN)	512804	43200	40320	42520	36856	44640	42480

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
2.51E+00	0.00E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.00E+00	2.24E-03	1.34E-02	0.00E+00	2.24E-03	0.00E+00	0.00E+00
1.58E+00	8.96E-03	2.02E-02	2.31E-03	1.34E-02	0.00E+00	0.00E+00
1.26E+00	1.34E-02	3.14E-02	2.31E-03	2.02E-02	0.00E+00	0.00E+00
1.00E+00	1.57E-02	5.38E-02	2.31E-03	2.91E-02	0.00E+00	0.00E+00
7.94E-01	3.58E-02	6.94E-02	2.31E-03	3.36E-02	0.00E+00	0.00E+00
6.31E-01	4.26E-02	8.06E-02	9.26E-03	4.03E-02	0.00E+00	0.00E+00
5.01E-01	6.50E-02	9.86E-02	4.40E-02	5.82E-02	0.00E+00	0.00E+00
3.98E-01	9.18E-02	1.28E-01	9.26E-02	9.63E-02	4.63E-03	0.00E+00
3.16E-01	1.48E-01	1.55E-01	1.48E-01	1.34E-01	1.16E-02	0.00E+00
2.51E-01	1.81E-01	1.86E-01	2.18E-01	1.79E-01	1.62E-02	0.00E+00
2.00E-01	1.99E-01	2.31E-01	2.71E-01	2.28E-01	2.78E-02	0.00E+00
1.58E-01	2.33E-01	2.78E-01	3.94E-01	3.58E-01	4.40E-02	0.00E+00
1.26E-01	2.78E-01	3.09E-01	6.55E-01	4.73E-01	1.02E-01	9.42E-03
1.00E-01	3.47E-01	3.36E-01	1.01E+00	6.07E-01	1.41E-01	2.35E-02
7.94E-02	4.64E-01	3.81E-01	1.39E+00	8.56E-01	2.75E-01	5.89E-02
6.31E-02	5.91E-01	4.41E-01	1.75E+00	1.22E+00	4.40E-01	1.25E-01
5.01E-02	6.70E-01	4.59E-01	2.00E+00	1.50E+00	6.13E-01	2.38E-01
3.98E-02	8.38E-01	4.66E-01	2.46E+00	1.89E+00	7.78E-01	3.56E-01
3.16E-02	9.57E-01	5.09E-01	2.98E+00	2.33E+00	9.81E-01	4.17E-01
2.51E-02	1.08E+00	5.76E-01	3.29E+00	2.74E+00	1.20E+00	5.11E-01
2.00E-02	1.20E+00	6.36E-01	3.57E+00	3.12E+00	1.40E+00	8.12E-01
1.58E-02	1.32E+00	6.43E-01	3.86E+00	3.54E+00	1.70E+00	1.16E+00
1.26E-02	1.37E+00	6.63E-01	4.08E+00	3.97E+00	2.07E+00	1.48E+00
1.00E-02	1.46E+00	6.90E-01	4.28E+00	4.27E+00	2.65E+00	2.01E+00
7.94E-03	1.55E+00	7.55E-01	4.44E+00	4.70E+00	3.18E+00	2.47E+00
6.31E-03	1.70E+00	7.80E-01	4.60E+00	5.03E+00	3.31E+00	2.83E+00
5.01E-03	1.72E+00	8.04E-01	4.76E+00	5.35E+00	3.57E+00	2.99E+00
4.20E-03	1.77E+00	8.09E-01	4.86E+00	5.49E+00	3.77E+00	3.39E+00
OPERATION TIME (MIN)	44640	44640	43200	44640	43200	42468

TABLE 18. FREQUENCIES OF 1-MINUTE PRECIPITATION RATES MEASURED IN URBANA,
ILLINOIS FROM MAY 1970 THROUGH APRIL 1971

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
2.51E+00	3.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.00E+00	1.53E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.58E+00	3.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.26E+00	6.29E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.00E+00	1.43E-02	0.00E+00	2.48E-03	0.00E+00	0.00E+00	0.00E+00	1.85E-02
7.94E-01	2.31E-02	0.00E+00	9.92E-03	0.00E+00	0.00E+00	8.96E-03	2.55E-02
6.31E-01	3.78E-02	0.00E+00	1.24E-02	0.00E+00	0.00E+00	2.91E-02	4.40E-02
5.01E-01	5.28E-02	0.00E+00	2.23E-02	0.00E+00	0.00E+00	4.03E-02	6.94E-02
3.98E-01	6.73E-02	0.00E+00	2.98E-02	6.72E-03	0.00E+00	4.70E-02	9.26E-02
3.16E-01	8.60E-02	4.48E-03	4.96E-02	2.24E-02	2.31E-03	5.60E-02	1.44E-01
2.51E-01	1.09E-01	2.24E-02	6.94E-02	5.38E-02	2.31E-03	6.27E-02	1.57E-01
2.00E-01	1.35E-01	5.15E-02	1.26E-01	6.27E-02	2.08E-02	6.50E-02	1.87E-01
1.58E-01	1.77E-01	7.84E-02	2.13E-01	7.62E-02	3.94E-02	8.06E-02	2.22E-01
1.26E-01	2.27E-01	9.63E-02	3.27E-01	1.14E-01	6.71E-02	1.37E-01	2.85E-01
1.00E-01	2.84E-01	1.28E-01	4.41E-01	1.43E-01	1.02E-01	2.20E-01	3.59E-01
7.94E-02	3.75E-01	1.81E-01	6.00E-01	2.02E-01	1.48E-01	2.91E-01	4.56E-01
6.31E-02	4.77E-01	2.40E-01	7.76E-01	2.55E-01	2.11E-01	3.76E-01	6.06E-01
5.01E-02	5.99E-01	3.07E-01	1.10E+00	2.98E-01	2.55E-01	4.88E-01	7.94E-01
3.98E-02	7.41E-01	4.35E-01	1.33E+00	4.12E-01	3.24E-01	6.14E-01	1.01E+00
3.16E-02	9.25E-01	5.31E-01	1.68E+00	5.49E-01	4.03E-01	7.68E-01	1.26E+00
2.51E-02	1.11E+00	6.16E-01	2.12E+00	7.30E-01	4.65E-01	9.07E-01	1.46E+00
2.00E-02	1.32E+00	7.03E-01	2.46E+00	9.57E-01	5.49E-01	9.92E-01	1.69E+00
1.58E-02	1.53E+00	7.75E-01	2.93E+00	1.22E+00	6.16E-01	1.12E+00	1.83E+00
1.26E-02	1.77E+00	8.87E-01	3.41E+00	1.41E+00	6.78E-01	1.24E+00	2.13E+00
1.00E-02	1.99E+00	9.32E-01	3.89E+00	1.80E+00	6.78E-01	1.31E+00	2.32E+00
7.94E-03	2.25E+00	1.10E+00	4.26E+00	2.18E+00	7.11E-01	1.44E+00	2.66E+00
6.31E-03	2.47E+00	1.19E+00	4.52E+00	2.46E+00	8.24E-01	1.52E+00	3.04E+00
5.01E-03	2.74E+00	1.40E+00	4.92E+00	3.03E+00	8.38E-01	1.70E+00	3.39E+00
4.20E-03	2.90E+00	1.54E+00	5.29E+00	3.48E+00	9.00E-01	1.72E+00	3.50E+00
OPERATION TIME (MIN)	524340	44640	40320	44640	43200	44640	43200

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
2.51E+00	4.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.00E+00	1.34E-02	4.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.58E+00	2.24E-02	1.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.26E+00	4.03E-02	2.91E-02	4.77E-03	0.00E+00	0.00E+00	0.00E+00
1.00E+00	6.72E-02	4.70E-02	3.10E-02	4.48E-03	0.00E+00	0.00E+00
7.94E-01	8.96E-02	7.17E-02	6.44E-02	4.48E-03	2.31E-03	0.00E+00
6.31E-01	1.25E-01	9.41E-02	1.29E-01	1.79E-02	2.31E-03	0.00E+00
5.01E-01	1.64E-01	1.12E-01	2.03E-01	2.46E-02	2.31E-03	0.00E+00
3.98E-01	1.93E-01	1.25E-01	2.67E-01	4.26E-02	9.26E-03	0.00E+00
3.16E-01	2.26E-01	1.41E-01	3.17E-01	5.38E-02	1.62E-02	2.24E-03
2.51E-01	2.64E-01	1.64E-01	4.03E-01	8.29E-02	3.24E-02	6.72E-03
2.00E-01	3.05E-01	1.66E-01	4.89E-01	1.10E-01	3.70E-02	1.79E-02
1.58E-01	3.36E-01	1.86E-01	6.37E-01	1.61E-01	9.72E-02	2.24E-02
1.26E-01	3.72E-01	1.97E-01	7.92E-01	2.26E-01	1.23E-01	2.24E-02
1.00E-01	4.26E-01	2.20E-01	9.23E-01	2.87E-01	1.64E-01	3.81E-02
7.94E-02	4.79E-01	2.55E-01	1.13E+00	4.57E-01	2.52E-01	1.03E-01
6.31E-02	5.60E-01	3.16E-01	1.37E+00	6.16E-01	2.69E-01	1.95E-01
5.01E-02	6.29E-01	3.83E-01	1.61E+00	8.13E-01	3.06E-01	2.98E-01
3.98E-02	7.46E-01	4.77E-01	1.90E+00	1.06E+00	3.59E-01	3.41E-01
3.16E-02	8.45E-01	5.71E-01	2.30E+00	1.36E+00	4.31E-01	5.44E-01
2.51E-02	9.48E-01	6.52E-01	2.66E+00	1.71E+00	4.98E-01	6.94E-01
2.00E-02	1.03E+00	8.53E-01	3.06E+00	2.16E+00	6.81E-01	9.03E-01
1.58E-02	1.08E+00	9.41E-01	3.44E+00	2.66E+00	8.80E-01	1.10E+00
1.26E-02	1.13E+00	1.00E+00	3.85E+00	3.10E+00	1.36E+00	1.32E+00
1.00E-02	1.31E+00	1.20E+00	4.17E+00	3.54E+00	1.60E+00	1.45E+00
7.94E-03	1.38E+00	1.29E+00	4.57E+00	3.90E+00	2.09E+00	1.66E+00
6.31E-03	1.47E+00	1.43E+00	4.95E+00	4.27E+00	2.51E+00	1.83E+00
5.01E-03	1.52E+00	1.46E+00	5.35E+00	4.48E+00	3.15E+00	1.95E+00
4.20E-03	1.55E+00	1.49E+00	5.51E+00	4.62E+00	3.37E+00	2.16E+00
OPERATION TIME (MIN)	44640	44640	41940	44640	43200	44640

TABLE 19. FREQUENCIES OF 1-MINUTE PRECIPITATION RATES MEASURED IN URBANA, ILLINOIS FROM MAY 1971 THROUGH APRIL 1972

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
2.51E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.00E+00	3.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.58E+00	2.49E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-03
1.26E+00	5.93E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-03	2.31E-03
1.00E+00	1.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-03	6.94E-03
7.94E-01	2.22E-02	0.00E+00	0.00E+00	0.00E+00	9.26E-03	2.69E-02	2.78E-02
6.31E-01	3.48E-02	0.00E+00	0.00E+00	0.00E+00	2.55E-02	4.03E-02	4.40E-02
5.01E-01	4.80E-02	0.00E+00	0.00E+00	0.00E+00	4.63E-02	5.15E-02	4.86E-02
3.98E-01	6.69E-02	0.00E+00	0.00E+00	1.12E-02	7.64E-02	8.29E-02	5.09E-02
3.16E-01	9.16E-02	0.00E+00	0.00E+00	1.12E-02	1.23E-01	1.01E-01	5.79E-02
2.51E-01	1.23E-01	0.00E+00	0.00E+00	2.69E-02	1.81E-01	1.52E-01	6.25E-02
2.00E-01	1.65E-01	4.48E-03	0.00E+00	4.70E-02	2.27E-01	2.17E-01	8.33E-02
1.58E-01	2.12E-01	4.48E-03	0.00E+00	1.12E-01	3.36E-01	2.98E-01	8.80E-02
1.26E-01	2.90E-01	6.72E-03	2.57E-03	2.17E-01	4.98E-01	3.99E-01	9.72E-02
1.00E-01	3.98E-01	1.12E-02	2.57E-03	4.35E-01	6.74E-01	5.87E-01	1.39E-01
7.94E-02	5.45E-01	1.12E-02	2.57E-03	6.68E-01	9.05E-01	7.59E-01	1.50E-01
6.31E-02	7.40E-01	5.15E-02	5.40E-02	1.02E+00	1.26E+00	8.83E-01	1.78E-01
5.01E-02	9.12E-01	6.50E-02	8.23E-02	1.20E+00	1.56E+00	1.16E+00	2.08E-01
3.98E-02	1.12E+00	1.93E-01	1.34E-01	1.54E+00	1.85E+00	1.42E+00	2.25E-01
3.16E-02	1.34E+00	2.69E-01	1.65E-01	1.87E+00	2.14E+00	1.69E+00	2.59E-01
2.51E-02	1.57E+00	4.61E-01	2.70E-01	2.15E+00	2.45E+00	1.84E+00	2.85E-01
2.00E-02	1.82E+00	7.30E-01	3.16E-01	2.46E+00	2.87E+00	2.06E+00	3.59E-01
1.58E-02	2.10E+00	9.81E-01	6.10E-01	2.85E+00	3.30E+00	2.23E+00	4.24E-01
1.26E-02	2.40E+00	1.56E+00	7.95E-01	3.17E+00	3.80E+00	2.44E+00	4.68E-01
1.00E-02	2.66E+00	1.77E+00	1.10E+00	3.43E+00	4.26E+00	2.63E+00	5.00E-01
7.94E-03	2.91E+00	2.05E+00	1.53E+00	3.71E+00	4.59E+00	2.69E+00	5.35E-01
6.31E-03	3.15E+00	2.41E+00	1.76E+00	3.88E+00	4.84E+00	2.93E+00	7.27E-01
5.01E-03	3.36E+00	2.53E+00	2.01E+00	4.16E+00	5.34E+00	3.09E+00	7.55E-01
4.20E-03	3.54E+00	2.68E+00	2.20E+00	4.56E+00	5.70E+00	3.20E+00	7.94E-01
OPERATION TIME (MIN)	523131	44640	38880	44640	43200	44640	43200

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
2.51E+00	2.24E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.00E+00	4.48E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.58E+00	2.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.26E+00	5.82E-02	4.59E-03	2.31E-03	0.00E+00	0.00E+00	0.00E+00
1.00E+00	1.05E-01	9.17E-03	1.62E-02	0.00E+00	0.00E+00	0.00E+00
7.94E-01	1.50E-01	1.83E-02	2.55E-02	0.00E+00	4.63E-03	0.00E+00
6.31E-01	2.24E-01	2.52E-02	4.40E-02	0.00E+00	9.26E-03	0.00E+00
5.01E-01	3.14E-01	3.21E-02	5.79E-02	0.00E+00	1.16E-02	2.24E-03
3.98E-01	4.10E-01	4.13E-02	9.49E-02	0.00E+00	1.39E-02	1.12E-02
3.16E-01	5.51E-01	6.42E-02	1.34E-01	0.00E+00	1.85E-02	2.46E-02
2.51E-01	6.77E-01	7.57E-02	1.83E-01	8.96E-03	3.24E-02	5.82E-02
2.00E-01	7.93E-01	8.03E-02	3.12E-01	1.34E-02	3.70E-02	1.41E-01
1.58E-01	9.30E-01	9.63E-02	3.84E-01	2.91E-02	4.17E-02	1.99E-01
1.26E-01	1.11E+00	1.15E-01	4.93E-01	4.03E-02	5.79E-02	4.03E-01
1.00E-01	1.29E+00	1.42E-01	5.86E-01	8.29E-02	8.33E-02	6.83E-01
7.94E-02	1.64E+00	1.81E-01	7.04E-01	1.03E-01	1.18E-01	1.21E+00
6.31E-02	2.05E+00	2.11E-01	9.21E-01	1.28E-01	1.83E-01	1.82E+00
5.01E-02	2.29E+00	2.22E-01	1.17E+00	2.33E-01	1.92E-01	2.41E+00
3.98E-02	2.53E+00	2.75E-01	1.47E+00	3.23E-01	2.18E-01	3.11E+00
3.16E-02	2.79E+00	3.74E-01	1.80E+00	4.44E-01	3.87E-01	3.75E+00
2.51E-02	3.03E+00	4.52E-01	2.30E+00	5.89E-01	5.39E-01	4.27E+00
2.00E-02	3.22E+00	5.14E-01	2.77E+00	6.34E-01	7.31E-01	4.93E+00
1.58E-02	3.41E+00	5.89E-01	3.21E+00	7.93E-01	1.00E+00	5.53E+00
1.26E-02	3.49E+00	6.60E-01	3.73E+00	8.92E-01	1.45E+00	6.10E+00
1.00E-02	3.62E+00	6.95E-01	4.28E+00	1.12E+00	1.74E+00	6.55E+00
7.94E-03	3.74E+00	7.13E-01	4.81E+00	1.31E+00	2.10E+00	6.92E+00
6.31E-03	3.81E+00	7.68E-01	5.16E+00	1.33E+00	2.83E+00	7.19E+00
5.01E-03	3.85E+00	7.82E-01	5.31E+00	1.40E+00	3.30E+00	7.59E+00
4.20E-03	3.89E+00	7.84E-01	5.46E+00	1.41E+00	3.69E+00	7.89E+00
OPERATION TIME (MIN)	44640	43611	43200	44640	43200	44640

TABLE 20. FREQUENCIES OF 1-HINUTE PRECIPITATION RATES MEASURED IN URBANA, ILLINOIS FROM MAY 1969 THROUGH APRIL 1972

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	ANNUAL	JAN	FEB	MAR	APR	MAY	JUN
2.51E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.58E+00	3.27E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-03
1.26E+00	6.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.47E-04	3.10E-03
1.00E+00	1.21E-02	0.00E+00	1.67E-03	1.52E-03	0.00E+00	1.49E-03	1.09E-02
7.94E-01	1.97E-02	0.00E+00	4.18E-03	1.52E-03	3.25E-03	1.19E-02	2.17E-02
6.31E-01	3.03E-02	0.00E+00	5.02E-03	4.55E-03	8.92E-03	2.46E-02	3.41E-02
5.01E-01	4.34E-02	0.00E+00	8.37E-03	6.83E-03	1.62E-02	4.26E-02	4.50E-02
3.98E-01	5.92E-02	0.00E+00	1.09E-02	1.14E-02	2.76E-02	5.90E-02	5.43E-02
3.16E-01	7.98E-02	1.51E-03	1.76E-02	1.82E-02	4.71E-02	7.24E-02	7.68E-02
2.51E-01	1.04E-01	7.55E-03	2.43E-02	3.72E-02	7.46E-02	9.56E-02	8.15E-02
2.00E-01	1.34E-01	1.89E-02	4.35E-02	5.24E-02	1.10E-01	1.23E-01	1.00E-01
1.58E-01	1.77E-01	2.79E-02	7.36E-02	9.33E-02	1.69E-01	1.60E-01	1.18E-01
1.26E-01	2.41E-01	3.47E-02	1.13E-01	1.56E-01	2.86E-01	2.17E-01	1.51E-01
1.00E-01	3.24E-01	4.68E-02	1.51E-01	2.69E-01	4.16E-01	3.23E-01	2.07E-01
7.94E-02	4.39E-01	6.49E-02	2.06E-01	3.85E-01	5.74E-01	4.19E-01	2.57E-01
6.31E-02	5.82E-01	9.81E-02	2.84E-01	5.47E-01	7.72E-01	5.10E-01	3.51E-01
5.01E-02	7.23E-01	1.25E-01	4.09E-01	6.57E-01	9.52E-01	6.91E-01	4.81E-01
3.98E-02	9.01E-01	2.11E-01	5.36E-01	8.47E-01	1.19E+00	8.62E-01	6.15E-01
3.16E-02	1.10E+00	2.82E-01	7.30E-01	1.08E+00	1.39E+00	1.06E+00	7.68E-01
2.51E-02	1.31E+00	4.10E-01	9.78E-01	1.33E+00	1.69E+00	1.21E+00	8.99E-01
2.00E-02	1.55E+00	5.99E-01	1.21E+00	1.66E+00	1.97E+00	1.38E+00	1.06E+00
1.58E-02	1.80E+00	7.41E-01	1.59E+00	2.01E+00	2.24E+00	1.53E+00	1.20E+00
1.26E-02	2.08E+00	1.07E+00	1.93E+00	2.45E+00	2.52E+00	1.68E+00	1.39E+00
1.00E-02	2.34E+00	1.21E+00	2.40E+00	2.81E+00	2.79E+00	1.84E+00	1.53E+00
7.94E-03	2.60E+00	1.40E+00	2.80E+00	3.15E+00	3.03E+00	1.96E+00	1.75E+00
6.31E-03	2.84E+00	1.67E+00	3.03E+00	3.51E+00	3.28E+00	2.11E+00	1.99E+00
5.01E-03	3.09E+00	1.97E+00	3.40E+00	3.99E+00	3.58E+00	2.28E+00	2.16E+00
4.20E-03	3.26E+00	2.15E+00	3.70E+00	4.34E+00	3.82E+00	2.34E+00	2.24E+00
OPERATION TIME (MIN)	1560275	132480	119520	131800	123256	133920	128880

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	JUL	AUG	SEP	OCT	NOV	DEC
2.51E+00	2.24E-03	7.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.00E+00	6.72E-03	6.02E-03	0.00E+00	7.47E-04	0.00E+00	0.00E+00
1.58E+00	1.94E-02	1.20E-02	7.79E-04	4.48E-03	0.00E+00	0.00E+00
1.26E+00	3.73E-02	2.18E-02	3.12E-03	6.72E-03	0.00E+00	0.00E+00
1.00E+00	6.27E-02	3.69E-02	1.64E-02	1.12E-02	0.00E+00	0.00E+00
7.94E-01	9.18E-02	5.34E-02	3.04E-02	1.27E-02	2.31E-03	0.00E+00
6.31E-01	1.31E-01	6.70E-02	6.00E-02	1.94E-02	3.86E-03	0.00E+00
5.01E-01	1.81E-01	8.13E-02	1.01E-01	2.76E-02	4.63E-03	7.59E-04
3.98E-01	2.31E-01	9.86E-02	1.50E-01	4.63E-02	9.26E-03	3.80E-03
3.16E-01	3.08E-01	1.20E-01	1.99E-01	6.27E-02	1.54E-02	9.11E-03
2.51E-01	3.74E-01	1.42E-01	2.66E-01	9.04E-02	2.70E-02	2.20E-02
2.00E-01	4.32E-01	1.60E-01	3.56E-01	1.17E-01	3.40E-02	5.39E-02
1.58E-01	5.00E-01	1.87E-01	4.70E-01	1.83E-01	6.10E-02	7.51E-02
1.26E-01	5.87E-01	2.08E-01	6.45E-01	2.46E-01	9.41E-02	1.47E-01
1.00E-01	6.88E-01	2.33E-01	8.39E-01	3.26E-01	1.30E-01	2.52E-01
7.94E-02	8.62E-01	2.73E-01	1.08E+00	4.72E-01	2.15E-01	4.62E-01
6.31E-02	1.07E+00	3.24E-01	1.35E+00	6.53E-01	2.97E-01	7.23E-01
5.01E-02	1.20E+00	3.56E-01	1.59E+00	8.48E-01	3.70E-01	9.96E-01
3.98E-02	1.37E+00	4.07E-01	1.94E+00	1.09E+00	4.51E-01	1.28E+00
3.16E-02	1.53E+00	4.85E-01	2.36E+00	1.38E+00	6.00E-01	1.59E+00
2.51E-02	1.69E+00	5.61E-01	2.75E+00	1.68E+00	7.45E-01	1.85E+00
2.00E-02	1.82E+00	6.69E-01	3.13E+00	1.97E+00	9.36E-01	2.24E+00
1.58E-02	1.94E+00	7.25E-01	3.50E+00	2.33E+00	1.19E+00	2.62E+00
1.26E-02	2.00E+00	7.77E-01	3.89E+00	2.65E+00	1.63E+00	2.99E+00
1.00E-02	2.13E+00	8.63E-01	4.24E+00	2.98E+00	1.99E+00	3.36E+00
7.94E-03	2.22E+00	9.22E-01	4.61E+00	3.31E+00	2.46E+00	3.71E+00
6.31E-03	2.33E+00	9.93E-01	4.91E+00	3.54E+00	2.88E+00	3.97E+00
5.01E-03	2.36E+00	1.02E+00	5.14E+00	3.74E+00	3.34E+00	4.20E+00
4.20E-03	2.41E+00	1.03E+00	5.28E+00	3.84E+00	3.61E+00	4.49E+00
OPERATION TIME (MIN)	133920	132891	128340	133920	129600	131748

TABLE 21. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 2-GAGE
(2.9-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
2.51E+00	2.01E-03	0.00E+00	8.96E-03	0.00E+00	0.00E+00	0.00E+00
1.99E+00	5.03E-03	0.00E+00	1.34E-02	0.00E+00	8.96E-03	0.00E+00
1.58E+00	1.21E-02	0.00E+00	1.34E-02	0.00E+00	3.58E-02	8.68E-03
1.26E+00	2.62E-02	0.00E+00	2.69E-02	4.63E-03	7.17E-02	2.60E-02
1.00E+00	4.43E-02	0.00E+00	4.93E-02	2.31E-02	1.08E-01	3.47E-02
7.94E-01	7.05E-02	1.39E-02	8.06E-02	4.17E-02	1.52E-01	5.21E-02
6.31E-01	9.46E-02	1.85E-02	1.08E-01	5.09E-02	2.15E-01	6.08E-02
5.01E-01	1.29E-01	3.70E-02	1.61E-01	6.02E-02	2.73E-01	8.68E-02
3.98E-01	1.58E-01	7.87E-02	1.84E-01	6.94E-02	3.18E-01	1.13E-01
3.16E-01	1.98E-01	1.53E-01	2.15E-01	7.41E-02	3.45E-01	2.00E-01
2.51E-01	2.97E-01	3.98E-01	2.51E-01	1.39E-01	3.81E-01	3.30E-01
1.99E-01	4.53E-01	7.45E-01	3.41E-01	2.13E-01	4.30E-01	6.16E-01
1.58E-01	6.42E-01	1.12E+00	4.88E-01	3.80E-01	4.66E-01	8.77E-01
1.26E-01	8.42E-01	1.47E+00	6.36E-01	6.39E-01	5.29E-01	1.06E+00
1.00E-01	1.07E+00	1.82E+00	9.41E-01	8.10E-01	5.82E-01	1.35E+00
7.94E-02	1.28E+00	2.23E+00	1.07E+00	1.06E+00	6.23E-01	1.61E+00
6.31E-02	1.51E+00	2.69E+00	1.22E+00	1.31E+00	6.99E-01	1.84E+00
5.01E-02	1.75E+00	3.06E+00	1.32E+00	1.58E+00	8.02E-01	2.27E+00
3.98E-02	1.94E+00	3.39E+00	1.44E+00	1.79E+00	8.47E-01	2.53E+00
3.16E-02	2.16E+00	3.76E+00	1.52E+00	2.16E+00	9.36E-01	2.76E+00
2.51E-02	2.36E+00	4.09E+00	1.66E+00	2.44E+00	1.02E+00	2.93E+00
1.99E-02	2.53E+00	4.38E+00	1.74E+00	2.67E+00	1.09E+00	3.06E+00
1.58E-02	2.65E+00	4.56E+00	1.84E+00	2.85E+00	1.15E+00	3.19E+00
1.26E-02	2.78E+00	4.87E+00	1.91E+00	3.01E+00	1.18E+00	3.23E+00
1.00E-02	2.86E+00	5.10E+00	1.93E+00	3.06E+00	1.21E+00	3.28E+00
7.94E-03	2.93E+00	5.25E+00	1.95E+00	3.10E+00	1.26E+00	3.38E+00
6.31E-03	3.00E+00	5.40E+00	1.96E+00	3.18E+00	1.30E+00	3.45E+00
5.01E-03	3.08E+00	5.67E+00	2.01E+00	3.19E+00	1.34E+00	3.49E+00
3.98E-03	3.13E+00	5.76E+00	2.03E+00	3.25E+00	1.36E+00	3.51E+00
3.16E-03	3.19E+00	5.96E+00	2.03E+00	3.27E+00	1.41E+00	3.55E+00
2.51E-03	3.23E+00	6.12E+00	2.04E+00	3.27E+00	1.42E+00	3.56E+00
2.00E-03	3.27E+00	6.24E+00	2.05E+00	3.27E+00	1.46E+00	3.56E+00
1.58E-03	3.28E+00	6.26E+00	2.06E+00	3.27E+00	1.48E+00	3.56E+00
1.26E-03	3.31E+00	6.37E+00	2.06E+00	3.28E+00	1.50E+00	3.56E+00
1.00E-03	3.33E+00	6.38E+00	2.06E+00	3.33E+00	1.52E+00	3.57E+00
7.94E-04	3.35E+00	6.44E+00	2.06E+00	3.33E+00	1.55E+00	3.57E+00
6.31E-04	3.36E+00	6.45E+00	2.07E+00	3.33E+00	1.57E+00	3.57E+00
5.01E-04	3.39E+00	6.54E+00	2.07E+00	3.34E+00	1.63E+00	3.57E+00
3.98E-04	3.41E+00	6.56E+00	2.07E+00	3.35E+00	1.68E+00	3.57E+00
3.16E-04	3.42E+00	6.56E+00	2.07E+00	3.35E+00	1.70E+00	3.57E+00
2.51E-04	3.43E+00	6.57E+00	2.07E+00	3.35E+00	1.76E+00	3.57E+00
2.00E-04	3.45E+00	6.58E+00	2.07E+00	3.35E+00	1.81E+00	3.57E+00
1.58E-04	3.45E+00	6.59E+00	2.07E+00	3.35E+00	1.82E+00	3.57E+00
1.26E-04	3.45E+00	6.59E+00	2.07E+00	3.35E+00	1.83E+00	3.57E+00
1.00E-04	3.45E+00	6.59E+00	2.07E+00	3.35E+00	1.84E+00	3.57E+00
7.94E-05	3.46E+00	6.59E+00	2.07E+00	3.35E+00	1.86E+00	3.57E+00
6.31E-05	3.46E+00	6.59E+00	2.07E+00	3.35E+00	1.86E+00	3.57E+00
5.01E-05	3.46E+00	6.59E+00	2.07E+00	3.35E+00	1.87E+00	3.57E+00
3.98E-05	3.46E+00	6.59E+00	2.07E+00	3.35E+00	1.87E+00	3.57E+00
3.16E-05	3.46E+00	6.59E+00	2.07E+00	3.35E+00	1.87E+00	3.57E+00
2.51E-05	3.46E+00	6.59E+00	2.07E+00	3.35E+00	1.87E+00	3.57E+00
2.00E-05	3.46E+00	6.59E+00	2.07E+00	3.35E+00	1.88E+00	3.57E+00
OPERATION TIME (MIN)	198720	43200	44640	43200	44640	23040

TABLE 22. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 4-GAGE
(8.8-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.58E+00	3.03E-03	0.00E+00	8.96E-03	0.00E+00	4.48E-03	0.00E+00
1.26E+00	6.05E-03	0.00E+00	1.34E-02	0.00E+00	1.34E-02	0.00E+00
1.00E+00	1.11E-02	0.00E+00	1.79E-02	0.00E+00	3.14E-02	0.00E+00
7.94E-01	1.61E-02	4.68E-03	2.69E-02	0.00E+00	4.03E-02	0.00E+00
6.31E-01	3.33E-02	1.87E-02	4.03E-02	9.26E-03	7.17E-02	1.74E-02
5.01E-01	6.25E-02	3.74E-02	7.17E-02	2.78E-02	1.25E-01	3.47E-02
3.98E-01	9.89E-02	4.68E-02	9.86E-02	7.87E-02	1.88E-01	6.08E-02
3.16E-01	1.41E-01	5.15E-02	1.30E-01	1.34E-01	2.82E-01	6.94E-02
2.51E-01	2.01E-01	1.17E-01	1.93E-01	1.53E-01	3.90E-01	9.55E-02
1.99E-01	2.64E-01	2.01E-01	2.33E-01	2.18E-01	4.66E-01	1.39E-01
1.58E-01	3.97E-01	5.62E-01	2.51E-01	3.19E-01	5.38E-01	2.52E-01
1.26E-01	5.81E-01	8.89E-01	3.94E-01	4.07E-01	6.41E-01	5.82E-01
1.00E-01	7.83E-01	1.39E+00	5.11E-01	5.28E-01	7.26E-01	7.81E-01
7.94E-02	9.86E-01	1.63E+00	7.80E-01	6.99E-01	8.29E-01	1.03E+00
6.31E-02	1.23E+00	2.03E+00	1.01E+00	8.84E-01	9.63E-01	1.30E+00
5.01E-02	1.44E+00	2.44E+00	1.14E+00	1.08E+00	1.11E+00	1.52E+00
3.98E-02	1.73E+00	2.86E+00	1.34E+00	1.42E+00	1.27E+00	1.81E+00
3.16E-02	1.99E+00	3.29E+00	1.50E+00	1.72E+00	1.39E+00	2.17E+00
2.51E-02	2.28E+00	3.77E+00	1.67E+00	2.06E+00	1.55E+00	2.56E+00
1.99E-02	2.52E+00	4.13E+00	1.85E+00	2.35E+00	1.68E+00	2.74E+00
1.58E-02	2.73E+00	4.40E+00	1.96E+00	2.63E+00	1.85E+00	3.02E+00
1.26E-02	2.93E+00	4.70E+00	2.09E+00	2.90E+00	1.97E+00	3.20E+00
1.00E-02	3.13E+00	4.92E+00	2.28E+00	3.17E+00	2.07E+00	3.40E+00
7.94E-03	3.37E+00	5.23E+00	2.57E+00	3.41E+00	2.24E+00	3.62E+00
6.31E-03	3.55E+00	5.48E+00	2.69E+00	3.72E+00	2.33E+00	3.72E+00
5.01E-03	3.70E+00	5.65E+00	2.80E+00	3.90E+00	2.49E+00	3.84E+00
3.98E-03	3.81E+00	5.91E+00	2.87E+00	4.00E+00	2.54E+00	3.86E+00
3.16E-03	3.95E+00	6.13E+00	2.96E+00	4.13E+00	2.67E+00	3.98E+00
2.51E-03	4.02E+00	6.27E+00	3.01E+00	4.19E+00	2.68E+00	4.08E+00
2.00E-03	4.09E+00	6.42E+00	3.01E+00	4.31E+00	2.73E+00	4.08E+00
1.58E-03	4.19E+00	6.61E+00	3.03E+00	4.49E+00	2.80E+00	4.08E+00
1.26E-03	4.29E+00	6.91E+00	3.03E+00	4.62E+00	2.83E+00	4.11E+00
1.00E-03	4.37E+00	6.97E+00	3.10E+00	4.73E+00	2.93E+00	4.11E+00
7.94E-04	4.47E+00	7.15E+00	3.11E+00	4.99E+00	2.94E+00	4.14E+00
6.31E-04	4.52E+00	7.36E+00	3.12E+00	4.99E+00	2.94E+00	4.14E+00
5.01E-04	4.53E+00	7.38E+00	3.13E+00	4.99E+00	2.95E+00	4.14E+00
3.98E-04	4.56E+00	7.47E+00	3.14E+00	5.04E+00	2.95E+00	4.15E+00
3.16E-04	4.58E+00	7.49E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
2.51E-04	4.58E+00	7.50E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
2.00E-04	4.59E+00	7.57E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
1.58E-04	4.60E+00	7.58E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
1.26E-04	4.60E+00	7.59E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
1.00E-04	4.60E+00	7.59E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
7.94E-05	4.60E+00	7.59E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
6.31E-05	4.61E+00	7.60E+00	3.15E+00	5.04E+00	3.01E+00	4.15E+00
OPERATION TIME (MIN)	198244	42724	44640	43200	44640	23040

TABLE 23. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 6-GAGE (14.9-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS. FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.26E+00	3.04E-03	0.00E+00	8.96E-03	0.00E+00	4.48E-03	0.00E+00
1.00E+00	6.08E-03	0.00E+00	1.34E-02	0.00E+00	1.34E-02	0.00E+00
7.94E-01	1.11E-02	0.00E+00	2.24E-02	0.00E+00	2.69E-02	0.00E+00
6.31E-01	1.42E-02	0.00E+00	2.24E-02	0.00E+00	4.03E-02	0.00E+00
5.01E-01	2.94E-02	9.53E-03	3.58E-02	4.63E-03	7.17E-02	1.74E-02
3.98E-01	6.18E-02	1.43E-02	5.38E-02	2.78E-02	1.61E-01	3.47E-02
3.16E-01	1.18E-01	3.34E-02	1.12E-01	7.87E-02	2.78E-01	5.21E-02
2.51E-01	1.68E-01	4.77E-02	1.61E-01	1.20E-01	3.85E-01	6.94E-02
1.99E-01	2.14E-01	9.53E-02	2.02E-01	1.85E-01	4.30E-01	8.68E-02
1.58E-01	3.13E-01	3.19E-01	2.64E-01	2.22E-01	5.42E-01	1.22E-01
1.26E-01	4.85E-01	7.39E-01	3.45E-01	2.78E-01	6.77E-01	3.12E-01
1.00E-01	6.85E-01	1.12E+00	5.15E-01	3.70E-01	7.80E-01	6.34E-01
7.94E-02	9.09E-01	1.43E+00	6.68E-01	5.74E-01	9.27E-01	1.02E+00
6.31E-02	1.13E+00	1.71E+00	9.54E-01	7.22E-01	1.11E+00	1.22E+00
5.01E-02	1.38E+00	2.13E+00	1.19E+00	9.40E-01	1.26E+00	1.45E+00
3.98E-02	1.62E+00	2.50E+00	1.38E+00	1.14E+00	1.47E+00	1.72E+00
3.16E-02	1.91E+00	2.92E+00	1.57E+00	1.52E+00	1.61E+00	2.01E+00
2.51E-02	2.21E+00	3.33E+00	1.79E+00	1.85E+00	1.79E+00	2.46E+00
1.99E-02	2.49E+00	3.69E+00	2.04E+00	2.25E+00	1.93E+00	2.73E+00
1.58E-02	2.75E+00	4.00E+00	2.31E+00	2.59E+00	2.07E+00	2.91E+00
1.26E-02	3.00E+00	4.26E+00	2.57E+00	3.06E+00	2.20E+00	3.02E+00
1.00E-02	3.24E+00	4.59E+00	2.74E+00	3.33E+00	2.36E+00	3.26E+00
7.94E-03	3.45E+00	4.85E+00	2.92E+00	3.62E+00	2.50E+00	3.47E+00
6.31E-03	3.68E+00	5.10E+00	3.10E+00	4.02E+00	2.59E+00	3.64E+00
5.01E-03	3.88E+00	5.34E+00	3.35E+00	4.28E+00	2.71E+00	3.79E+00
3.98E-03	4.08E+00	5.65E+00	3.48E+00	4.54E+00	2.84E+00	3.91E+00
3.16E-03	4.23E+00	5.82E+00	3.65E+00	4.72E+00	2.95E+00	3.99E+00
2.51E-03	4.39E+00	6.16E+00	3.76E+00	4.88E+00	3.03E+00	4.11E+00
2.00E-03	4.52E+00	6.43E+00	3.82E+00	5.06E+00	3.06E+00	4.19E+00
1.58E-03	4.63E+00	6.64E+00	3.88E+00	5.17E+00	3.16E+00	4.27E+00
1.26E-03	4.70E+00	6.75E+00	3.92E+00	5.28E+00	3.21E+00	4.27E+00
1.00E-03	4.80E+00	7.01E+00	3.92E+00	5.42E+00	3.28E+00	4.28E+00
7.94E-04	4.89E+00	7.22E+00	3.93E+00	5.56E+00	3.31E+00	4.31E+00
6.31E-04	4.95E+00	7.32E+00	4.00E+00	5.59E+00	3.39E+00	4.31E+00
5.01E-04	5.07E+00	7.53E+00	4.00E+00	5.91E+00	3.40E+00	4.31E+00
3.98E-04	5.13E+00	7.77E+00	4.00E+00	5.94E+00	3.40E+00	4.31E+00
3.16E-04	5.16E+00	7.91E+00	4.01E+00	5.94E+00	3.41E+00	4.31E+00
2.51E-04	5.20E+00	8.06E+00	4.02E+00	5.94E+00	3.41E+00	4.31E+00
2.00E-04	5.21E+00	8.08E+00	4.04E+00	5.97E+00	3.42E+00	4.31E+00
1.58E-04	5.22E+00	8.11E+00	4.04E+00	5.97E+00	3.42E+00	4.31E+00
1.26E-04	5.22E+00	8.11E+00	4.04E+00	5.97E+00	3.42E+00	4.31E+00
1.00E-04	5.23E+00	8.16E+00	4.04E+00	5.97E+00	3.42E+00	4.31E+00
7.94E-05	5.25E+00	8.17E+00	4.04E+00	6.03E+00	3.43E+00	4.31E+00
6.31E-05	5.25E+00	8.17E+00	4.04E+00	6.03E+00	3.43E+00	4.31E+00
5.01E-05	5.25E+00	8.17E+00	4.04E+00	6.03E+00	3.43E+00	4.31E+00
3.98E-05	5.25E+00	8.21E+00	4.05E+00	6.03E+00	3.43E+00	4.31E+00
OPERATION TIME (MIN)	197492	41972	44640	43200	44640	23040

TABLE 24. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 8-GAGE
(21.1-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.00E+00	3.04E-03	0.00E+00	8.96E-03	0.00E+00	4.48E-03	0.00E+00
7.94E-01	6.08E-03	0.00E+00	1.34E-02	0.00E+00	1.34E-02	0.00E+00
6.31E-01	1.22E-02	0.00E+00	2.24E-02	0.00E+00	3.14E-02	0.00E+00
5.01E-01	2.23E-02	9.58E-03	3.14E-02	4.63E-03	5.38E-02	0.00E+00
3.98E-01	4.56E-02	1.44E-02	4.93E-02	1.85E-02	1.08E-01	2.60E-02
3.16E-01	7.91E-02	2.39E-02	7.62E-02	4.17E-02	1.93E-01	3.47E-02
2.51E-01	1.42E-01	3.83E-02	1.30E-01	1.16E-01	3.14E-01	6.94E-02
1.99E-01	2.11E-01	7.66E-02	1.79E-01	2.08E-01	4.35E-01	8.68E-02
1.58E-01	3.09E-01	2.44E-01	2.60E-01	2.87E-01	5.33E-01	1.30E-01
1.26E-01	4.83E-01	6.94E-01	3.49E-01	3.52E-01	6.68E-01	2.43E-01
1.00E-01	6.56E-01	9.86E-01	4.88E-01	4.44E-01	8.42E-01	4.17E-01
7.94E-02	8.98E-01	1.41E+00	6.90E-01	6.20E-01	9.63E-01	7.73E-01
6.31E-02	1.14E+00	1.72E+00	9.09E-01	8.33E-01	1.13E+00	1.16E+00
5.01E-02	1.41E+00	2.08E+00	1.17E+00	1.01E+00	1.32E+00	1.58E+00
3.98E-02	1.68E+00	2.52E+00	1.43E+00	1.25E+00	1.48E+00	1.86E+00
3.16E-02	1.97E+00	2.88E+00	1.72E+00	1.56E+00	1.67E+00	2.14E+00
2.51E-02	2.30E+00	3.36E+00	1.97E+00	1.97E+00	1.84E+00	2.52E+00
1.99E-02	2.58E+00	3.72E+00	2.20E+00	2.37E+00	2.03E+00	2.68E+00
1.58E-02	2.87E+00	4.06E+00	2.46E+00	2.81E+00	2.20E+00	2.92E+00
1.26E-02	3.13E+00	4.32E+00	2.73E+00	3.19E+00	2.34E+00	3.14E+00
1.00E-02	3.37E+00	4.60E+00	2.98E+00	3.56E+00	2.46E+00	3.34E+00
7.94E-03	3.61E+00	4.93E+00	3.22E+00	3.81E+00	2.57E+00	3.60E+00
6.31E-03	3.85E+00	5.22E+00	3.45E+00	4.13E+00	2.69E+00	3.86E+00
5.01E-03	4.08E+00	5.47E+00	3.66E+00	4.48E+00	2.82E+00	4.06E+00
3.98E-03	4.28E+00	5.78E+00	3.77E+00	4.81E+00	2.91E+00	4.24E+00
3.16E-03	4.51E+00	6.15E+00	4.01E+00	4.96E+00	3.09E+00	4.40E+00
2.51E-03	4.70E+00	6.53E+00	4.15E+00	5.23E+00	3.16E+00	4.47E+00
2.00E-03	4.88E+00	6.82E+00	4.28E+00	5.41E+00	3.31E+00	4.60E+00
1.58E-03	5.02E+00	7.16E+00	4.32E+00	5.62E+00	3.33E+00	4.64E+00
1.26E-03	5.14E+00	7.43E+00	4.37E+00	5.73E+00	3.43E+00	4.71E+00
1.00E-03	5.23E+00	7.67E+00	4.39E+00	5.85E+00	3.46E+00	4.74E+00
7.94E-04	5.30E+00	7.79E+00	4.40E+00	6.00E+00	3.49E+00	4.76E+00
6.31E-04	5.41E+00	8.15E+00	4.41E+00	6.04E+00	3.56E+00	4.76E+00
5.01E-04	5.51E+00	8.34E+00	4.42E+00	6.21E+00	3.64E+00	4.77E+00
3.98E-04	5.59E+00	8.51E+00	4.48E+00	6.34E+00	3.66E+00	4.77E+00
3.16E-04	5.66E+00	8.66E+00	4.49E+00	6.47E+00	3.67E+00	4.77E+00
2.51E-04	5.72E+00	8.90E+00	4.50E+00	6.50E+00	3.68E+00	4.77E+00
2.00E-04	5.73E+00	8.94E+00	4.51E+00	6.51E+00	3.68E+00	4.77E+00
1.58E-04	5.77E+00	9.08E+00	4.53E+00	6.54E+00	3.69E+00	4.78E+00
1.26E-04	5.78E+00	9.09E+00	4.53E+00	6.54E+00	3.69E+00	4.78E+00
1.00E-04	5.78E+00	9.10E+00	4.53E+00	6.54E+00	3.70E+00	4.78E+00
7.94E-05	5.79E+00	9.15E+00	4.53E+00	6.54E+00	3.70E+00	4.79E+00
6.31E-05	5.79E+00	9.15E+00	4.53E+00	6.54E+00	3.70E+00	4.79E+00
5.01E-05	5.81E+00	9.15E+00	4.54E+00	6.61E+00	3.71E+00	4.79E+00
3.98E-05	5.81E+00	9.15E+00	4.54E+00	6.61E+00	3.71E+00	4.79E+00
3.16E-05	5.81E+00	9.15E+00	4.54E+00	6.61E+00	3.71E+00	4.79E+00
2.51E-05	5.82E+00	9.19E+00	4.54E+00	6.61E+00	3.71E+00	4.79E+00
OPERATION TIME (MIN)	197292	41772	44640	43200	44640	23040

TABLE 25. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 10-GAGE
(26.8-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
7.94E-01	3.04E-03	0.00E+00	8.96E-03	0.00E+00	4.48E-03	0.00E+00
6.31E-01	6.08E-03	0.00E+00	1.34E-02	0.00E+00	1.34E-02	0.00E+00
5.01E-01	1.62E-02	0.00E+00	2.24E-02	0.00E+00	4.93E-02	0.00E+00
3.98E-01	3.04E-02	1.44E-02	4.48E-02	9.26E-03	6.72E-02	0.00E+00
3.16E-01	6.59E-02	1.44E-02	5.82E-02	2.31E-02	1.79E-01	3.47E-02
2.51E-01	1.20E-01	3.35E-02	1.08E-01	1.16E-01	2.46E-01	6.08E-02
1.99E-01	1.91E-01	6.23E-02	1.66E-01	2.22E-01	3.63E-01	7.81E-02
1.58E-01	2.72E-01	1.72E-01	2.06E-01	3.06E-01	4.75E-01	1.22E-01
1.26E-01	4.34E-01	5.79E-01	3.05E-01	3.70E-01	5.96E-01	2.26E-01
1.00E-01	6.10E-01	9.34E-01	4.17E-01	4.63E-01	7.66E-01	3.73E-01
7.94E-02	8.68E-01	1.35E+00	6.81E-01	6.53E-01	9.32E-01	6.34E-01
6.31E-02	1.12E+00	1.74E+00	8.65E-01	8.66E-01	1.13E+00	9.55E-01
5.01E-02	1.39E+00	2.04E+00	1.11E+00	1.10E+00	1.30E+00	1.51E+00
3.98E-02	1.68E+00	2.45E+00	1.38E+00	1.34E+00	1.53E+00	1.82E+00
3.16E-02	1.98E+00	2.87E+00	1.70E+00	1.61E+00	1.74E+00	2.12E+00
2.51E-02	2.31E+00	3.28E+00	1.97E+00	2.04E+00	1.94E+00	2.44E+00
1.99E-02	2.63E+00	3.69E+00	2.24E+00	2.45E+00	2.13E+00	2.73E+00
1.58E-02	2.89E+00	4.05E+00	2.47E+00	2.79E+00	2.33E+00	2.88E+00
1.26E-02	3.19E+00	4.37E+00	2.76E+00	3.16E+00	2.55E+00	3.15E+00
1.00E-02	3.46E+00	4.69E+00	3.09E+00	3.55E+00	2.66E+00	3.32E+00
7.94E-03	3.71E+00	4.96E+00	3.32E+00	3.87E+00	2.82E+00	3.64E+00
6.31E-03	3.97E+00	5.28E+00	3.53E+00	4.20E+00	2.97E+00	3.94E+00
5.01E-03	4.21E+00	5.63E+00	3.73E+00	4.47E+00	3.10E+00	4.21E+00
3.98E-03	4.45E+00	5.94E+00	3.94E+00	4.81E+00	3.23E+00	4.43E+00
3.16E-03	4.70E+00	6.32E+00	4.16E+00	5.15E+00	3.33E+00	4.64E+00
2.51E-03	4.94E+00	6.70E+00	4.32E+00	5.34E+00	3.52E+00	4.98E+00
2.00E-03	5.15E+00	7.12E+00	4.51E+00	5.56E+00	3.59E+00	5.03E+00
1.58E-03	5.30E+00	7.40E+00	4.60E+00	5.74E+00	3.72E+00	5.12E+00
1.26E-03	5.44E+00	7.69E+00	4.66E+00	5.93E+00	3.75E+00	5.26E+00
1.00E-03	5.58E+00	7.99E+00	4.77E+00	5.99E+00	3.88E+00	5.30E+00
7.94E-04	5.68E+00	8.24E+00	4.81E+00	6.11E+00	3.90E+00	5.36E+00
6.31E-04	5.76E+00	8.41E+00	4.83E+00	6.23E+00	3.92E+00	5.38E+00
5.01E-04	5.88E+00	8.81E+00	4.84E+00	6.31E+00	4.01E+00	5.39E+00
3.98E-04	5.99E+00	9.02E+00	4.88E+00	6.48E+00	4.09E+00	5.41E+00
3.16E-04	6.06E+00	9.19E+00	4.93E+00	6.51E+00	4.12E+00	5.45E+00
2.51E-04	6.14E+00	9.32E+00	4.94E+00	6.74E+00	4.13E+00	5.45E+00
2.00E-04	6.17E+00	9.41E+00	4.95E+00	6.77E+00	4.14E+00	5.47E+00
1.58E-04	6.18E+00	9.45E+00	4.96E+00	6.78E+00	4.14E+00	5.47E+00
1.26E-04	6.23E+00	9.58E+00	4.98E+00	6.81E+00	4.15E+00	5.49E+00
1.00E-04	6.23E+00	9.61E+00	4.98E+00	6.81E+00	4.15E+00	5.49E+00
7.94E-05	6.24E+00	9.61E+00	4.99E+00	6.81E+00	4.16E+00	5.49E+00
6.31E-05	6.24E+00	9.61E+00	4.99E+00	6.81E+00	4.16E+00	5.49E+00
5.01E-05	6.24E+00	9.62E+00	4.99E+00	6.82E+00	4.16E+00	5.49E+00
3.98E-05	6.27E+00	9.72E+00	4.99E+00	6.88E+00	4.16E+00	5.49E+00
3.16E-05	6.27E+00	9.72E+00	4.99E+00	6.88E+00	4.16E+00	5.49E+00
2.51E-05	6.27E+00	9.72E+00	4.99E+00	6.88E+00	4.16E+00	5.49E+00
2.00E-05	6.28E+00	9.73E+00	4.99E+00	6.88E+00	4.16E+00	5.49E+00
1.58E-05	6.28E+00	9.73E+00	4.99E+00	6.88E+00	4.16E+00	5.49E+00
1.26E-05	6.28E+00	9.73E+00	4.99E+00	6.88E+00	4.16E+00	5.49E+00
1.00E-05	6.28E+00	9.73E+00	4.99E+00	6.88E+00	4.16E+00	5.49E+00
7.94E-06	6.28E+00	9.73E+00	4.99E+00	6.88E+00	4.16E+00	5.49E+00
6.31E-06	6.28E+00	9.73E+00	5.00E+00	6.88E+00	4.16E+00	5.49E+00
OPERATION TIME (MIN)	197284	41764	44640	43200	44640	23040

TABLE 26. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 12-GAGE
(32.5-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
6.31E-01	3.04E-03	0.00E+00	8.96E-03	0.00E+00	4.48E-03	0.00E+00
5.01E-01	9.13E-03	0.00E+00	1.79E-02	0.00E+00	2.24E-02	0.00E+00
3.98E-01	2.74E-02	1.44E-02	4.03E-02	0.00E+00	6.72E-02	0.00E+00
3.16E-01	4.97E-02	1.44E-02	5.38E-02	1.85E-02	1.21E-01	2.60E-02
2.51E-01	9.23E-02	2.88E-02	7.62E-02	6.94E-02	2.11E-01	5.21E-02
1.99E-01	1.62E-01	7.21E-02	1.39E-01	1.76E-01	3.00E-01	7.81E-02
1.58E-01	2.57E-01	1.83E-01	1.84E-01	2.92E-01	4.44E-01	1.04E-01
1.26E-01	4.25E-01	5.67E-01	2.60E-01	4.07E-01	6.00E-01	1.82E-01
1.00E-01	6.00E-01	9.18E-01	3.99E-01	5.09E-01	7.17E-01	3.56E-01
7.94E-02	8.52E-01	1.37E+00	6.32E-01	6.62E-01	8.96E-01	6.25E-01
6.31E-02	1.11E+00	1.76E+00	8.42E-01	8.61E-01	1.12E+00	8.85E-01
5.01E-02	1.38E+00	2.06E+00	1.07E+00	1.09E+00	1.32E+00	1.39E+00
3.98E-02	1.69E+00	2.48E+00	1.38E+00	1.35E+00	1.55E+00	1.75E+00
3.16E-02	2.01E+00	2.96E+00	1.72E+00	1.56E+00	1.79E+00	2.14E+00
2.51E-02	2.33E+00	3.35E+00	2.01E+00	1.95E+00	2.04E+00	2.41E+00
1.99E-02	2.66E+00	3.70E+00	2.37E+00	2.37E+00	2.25E+00	2.67E+00
1.58E-02	2.96E+00	4.07E+00	2.58E+00	2.80E+00	2.52E+00	2.86E+00
1.26E-02	3.27E+00	4.51E+00	2.84E+00	3.17E+00	2.74E+00	3.09E+00
1.00E-02	3.56E+00	4.87E+00	3.13E+00	3.51E+00	2.92E+00	3.34E+00
7.94E-03	3.83E+00	5.13E+00	3.39E+00	3.92E+00	3.07E+00	3.65E+00
6.31E-03	4.11E+00	5.47E+00	3.67E+00	4.26E+00	3.20E+00	3.94E+00
5.01E-03	4.40E+00	5.85E+00	3.98E+00	4.56E+00	3.37E+00	4.28E+00
3.98E-03	4.64E+00	6.17E+00	4.19E+00	4.82E+00	3.57E+00	4.51E+00
3.16E-03	4.91E+00	6.59E+00	4.37E+00	5.14E+00	3.70E+00	4.83E+00
2.51E-03	5.18E+00	7.01E+00	4.57E+00	5.52E+00	3.83E+00	5.07E+00
2.00E-03	5.45E+00	7.59E+00	4.72E+00	5.70E+00	4.03E+00	5.27E+00
1.58E-03	5.65E+00	8.00E+00	4.89E+00	5.96E+00	4.10E+00	5.35E+00
1.26E-03	5.83E+00	8.20E+00	5.00E+00	6.16E+00	4.24E+00	5.60E+00
1.00E-03	5.99E+00	8.46E+00	5.08E+00	6.38E+00	4.33E+00	5.76E+00
7.94E-04	6.14E+00	8.81E+00	5.19E+00	6.46E+00	4.45E+00	5.85E+00
6.31E-04	6.26E+00	9.13E+00	5.24E+00	6.60E+00	4.48E+00	5.89E+00
5.01E-04	6.36E+00	9.37E+00	5.29E+00	6.71E+00	4.50E+00	5.93E+00
3.98E-04	6.47E+00	9.67E+00	5.30E+00	6.78E+00	4.63E+00	5.95E+00
3.16E-04	6.60E+00	9.95E+00	5.36E+00	6.95E+00	4.71E+00	5.96E+00
2.51E-04	6.65E+00	1.00E+01	5.39E+00	7.04E+00	4.74E+00	6.01E+00
2.00E-04	6.72E+00	1.02E+01	5.40E+00	7.17E+00	4.74E+00	6.02E+00
1.58E-04	6.77E+00	1.03E+01	5.42E+00	7.22E+00	4.75E+00	6.05E+00
1.26E-04	6.80E+00	1.04E+01	5.43E+00	7.23E+00	4.75E+00	6.05E+00
1.00E-04	6.84E+00	1.06E+01	5.46E+00	7.25E+00	4.75E+00	6.07E+00
7.94E-05	6.86E+00	1.06E+01	5.47E+00	7.25E+00	4.75E+00	6.08E+00
6.31E-05	6.86E+00	1.06E+01	5.48E+00	7.26E+00	4.76E+00	6.08E+00
5.01E-05	6.87E+00	1.06E+01	5.48E+00	7.26E+00	4.76E+00	6.09E+00
3.98E-05	6.88E+00	1.06E+01	5.48E+00	7.32E+00	4.76E+00	6.09E+00
3.16E-05	6.89E+00	1.07E+01	5.48E+00	7.33E+00	4.76E+00	6.09E+00
2.51E-05	6.89E+00	1.07E+01	5.49E+00	7.33E+00	4.76E+00	6.09E+00
2.00E-05	6.89E+00	1.07E+01	5.49E+00	7.33E+00	4.76E+00	6.09E+00
1.58E-05	6.89E+00	1.07E+01	5.49E+00	7.33E+00	4.76E+00	6.09E+00
OPERATION TIME (MIN)	197118	41598	44640	43200	44640	23040

TABLE 27. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 14-GAGE (38.7-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
6.31E-01	1.02E-03	0.00E+00	0.00E+00	0.00E+00	4.48E-03	0.00E+00
5.01E-01	5.08E-03	0.00E+00	8.96E-03	0.00E+00	1.34E-02	0.00E+00
3.98E-01	1.63E-02	4.85E-03	1.79E-02	0.00E+00	4.93E-02	0.00E+00
3.16E-01	3.76E-02	1.45E-02	4.48E-02	1.39E-02	9.41E-02	0.00E+00
2.51E-01	7.01E-02	2.42E-02	6.72E-02	3.24E-02	1.70E-01	3.47E-02
1.99E-01	1.31E-01	6.30E-02	9.41E-02	1.53E-01	2.42E-01	6.94E-02
1.58E-01	2.22E-01	1.79E-01	1.52E-01	2.55E-01	3.67E-01	8.68E-02
1.26E-01	3.55E-01	4.22E-01	2.06E-01	3.70E-01	5.24E-01	1.65E-01
1.00E-01	5.38E-01	8.24E-01	3.54E-01	4.63E-01	6.68E-01	2.69E-01
7.94E-02	7.44E-01	1.23E+00	5.15E-01	5.74E-01	8.42E-01	4.51E-01
6.31E-02	1.02E+00	1.66E+00	7.53E-01	8.06E-01	1.05E+00	7.20E-01
5.01E-02	1.27E+00	1.97E+00	9.36E-01	1.00E+00	1.31E+00	1.09E+00
3.98E-02	1.57E+00	2.30E+00	1.23E+00	1.25E+00	1.54E+00	1.61E+00
3.16E-02	1.92E+00	2.77E+00	1.59E+00	1.52E+00	1.78E+00	2.01E+00
2.51E-02	2.26E+00	3.24E+00	1.94E+00	1.80E+00	2.07E+00	2.31E+00
1.99E-02	2.59E+00	3.61E+00	2.26E+00	2.25E+00	2.31E+00	2.62E+00
1.58E-02	2.91E+00	3.95E+00	2.60E+00	2.68E+00	2.51E+00	2.83E+00
1.26E-02	3.26E+00	4.47E+00	2.87E+00	3.14E+00	2.80E+00	3.00E+00
1.00E-02	3.56E+00	4.85E+00	3.12E+00	3.45E+00	3.08E+00	3.24E+00
7.94E-03	3.84E+00	5.17E+00	3.41E+00	3.78E+00	3.22E+00	3.59E+00
6.31E-03	4.13E+00	5.47E+00	3.75E+00	4.15E+00	3.38E+00	3.85E+00
5.01E-03	4.42E+00	5.81E+00	4.06E+00	4.47E+00	3.58E+00	4.14E+00
3.98E-03	4.69E+00	6.24E+00	4.31E+00	4.75E+00	3.74E+00	4.42E+00
3.16E-03	4.99E+00	6.70E+00	4.54E+00	5.04E+00	3.93E+00	4.73E+00
2.51E-03	5.32E+00	7.22E+00	4.78E+00	5.43E+00	4.12E+00	5.10E+00
2.00E-03	5.60E+00	7.65E+00	5.00E+00	5.79E+00	4.28E+00	5.30E+00
1.58E-03	5.84E+00	8.16E+00	5.17E+00	6.01E+00	4.43E+00	5.41E+00
1.26E-03	6.08E+00	8.44E+00	5.39E+00	6.32E+00	4.52E+00	5.77E+00
1.00E-03	6.31E+00	8.82E+00	5.52E+00	6.60E+00	4.67E+00	5.97E+00
7.94E-04	6.49E+00	9.22E+00	5.62E+00	6.80E+00	4.74E+00	6.06E+00
6.31E-04	6.63E+00	9.56E+00	5.75E+00	6.87E+00	4.82E+00	6.13E+00
5.01E-04	6.75E+00	9.83E+00	5.82E+00	7.03E+00	4.86E+00	6.20E+00
3.98E-04	6.88E+00	1.01E+01	5.88E+00	7.15E+00	4.93E+00	6.39E+00
3.16E-04	6.97E+00	1.03E+01	5.91E+00	7.24E+00	4.95E+00	6.48E+00
2.51E-04	7.08E+00	1.06E+01	5.97E+00	7.30E+00	5.03E+00	6.51E+00
2.00E-04	7.15E+00	1.06E+01	5.99E+00	7.49E+00	5.04E+00	6.58E+00
1.58E-04	7.20E+00	1.08E+01	6.00E+00	7.50E+00	5.05E+00	6.60E+00
1.26E-04	7.25E+00	1.10E+01	6.02E+00	7.53E+00	5.06E+00	6.64E+00
1.00E-04	7.29E+00	1.12E+01	6.04E+00	7.55E+00	5.07E+00	6.64E+00
7.94E-05	7.33E+00	1.12E+01	6.11E+00	7.57E+00	5.08E+00	6.67E+00
6.31E-05	7.35E+00	1.13E+01	6.11E+00	7.57E+00	5.08E+00	6.71E+00
5.01E-05	7.37E+00	1.13E+01	6.13E+00	7.58E+00	5.09E+00	6.71E+00
3.98E-05	7.38E+00	1.14E+01	6.14E+00	7.58E+00	5.09E+00	6.71E+00
3.16E-05	7.40E+00	1.14E+01	6.14E+00	7.63E+00	5.09E+00	6.71E+00
2.51E-05	7.40E+00	1.14E+01	6.14E+00	7.64E+00	5.09E+00	6.71E+00
2.00E-05	7.40E+00	1.14E+01	6.14E+00	7.64E+00	5.09E+00	6.72E+00
1.58E-05	7.40E+00	1.14E+01	6.14E+00	7.64E+00	5.09E+00	6.72E+00
1.26E-05	7.40E+00	1.14E+01	6.15E+00	7.65E+00	5.09E+00	6.72E+00
1.00E-05	7.40E+00	1.14E+01	6.15E+00	7.65E+00	5.09E+00	6.72E+00
7.94E-06	7.41E+00	1.14E+01	6.15E+00	7.65E+00	5.09E+00	6.74E+00
OPERATION TIME (MIN)	196760	41240	44640	43200	44640	23040

TABLE 28. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 2-GAGE
(3.4-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.58E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	4.48E-03	0.00E+00
1.26E+00	6.04E-03	0.00E+00	0.00E+00	0.00E+00	2.69E-02	0.00E+00
1.00E+00	1.61E-02	0.00E+00	1.34E-02	0.00E+00	5.82E-02	0.00E+00
7.94E-01	3.22E-02	0.00E+00	3.14E-02	0.00E+00	1.12E-01	0.00E+00
6.31E-01	5.74E-02	9.26E-03	5.38E-02	4.63E-03	1.66E-01	4.34E-02
5.01E-01	8.05E-02	9.26E-03	8.06E-02	2.31E-02	2.02E-01	8.68E-02
3.98E-01	1.06E-01	2.31E-02	1.21E-01	4.63E-02	2.28E-01	1.04E-01
3.16E-01	1.40E-01	6.02E-02	1.66E-01	5.56E-02	2.78E-01	1.30E-01
2.51E-01	1.76E-01	8.80E-02	2.02E-01	8.33E-02	3.41E-01	1.48E-01
1.99E-01	2.38E-01	1.94E-01	2.78E-01	1.16E-01	3.63E-01	2.26E-01
1.58E-01	3.62E-01	5.14E-01	3.23E-01	1.44E-01	4.44E-01	4.08E-01
1.26E-01	5.26E-01	8.24E-01	4.12E-01	2.87E-01	5.06E-01	6.77E-01
1.00E-01	7.54E-01	1.19E+00	5.87E-01	5.46E-01	5.73E-01	9.98E-01
7.94E-02	9.72E-01	1.60E+00	7.93E-01	7.41E-01	6.50E-01	1.20E+00
6.31E-02	1.19E+00	1.97E+00	1.00E+00	1.00E+00	7.08E-01	1.41E+00
5.01E-02	1.42E+00	2.38E+00	1.13E+00	1.25E+00	7.66E-01	1.76E+00
3.98E-02	1.67E+00	2.75E+00	1.30E+00	1.54E+00	9.23E-01	2.08E+00
3.16E-02	1.88E+00	3.12E+00	1.38E+00	1.79E+00	1.01E+00	2.36E+00
2.51E-02	2.06E+00	3.46E+00	1.43E+00	2.06E+00	1.09E+00	2.53E+00
1.99E-02	2.23E+00	3.87E+00	1.52E+00	2.24E+00	1.17E+00	2.61E+00
1.58E-02	2.39E+00	4.17E+00	1.61E+00	2.42E+00	1.22E+00	2.77E+00
1.26E-02	2.54E+00	4.46E+00	1.71E+00	2.63E+00	1.25E+00	2.86E+00
1.00E-02	2.66E+00	4.83E+00	1.72E+00	2.71E+00	1.34E+00	2.92E+00
7.94E-03	2.76E+00	5.03E+00	1.75E+00	2.84E+00	1.37E+00	3.05E+00
6.31E-03	2.86E+00	5.23E+00	1.79E+00	2.96E+00	1.42E+00	3.06E+00
5.01E-03	2.93E+00	5.46E+00	1.81E+00	3.01E+00	1.46E+00	3.08E+00
3.98E-03	3.04E+00	5.77E+00	1.85E+00	3.10E+00	1.51E+00	3.08E+00
3.16E-03	3.12E+00	6.05E+00	1.86E+00	3.14E+00	1.53E+00	3.10E+00
2.51E-03	3.18E+00	6.25E+00	1.87E+00	3.15E+00	1.55E+00	3.16E+00
2.00E-03	3.23E+00	6.46E+00	1.87E+00	3.16E+00	1.55E+00	3.16E+00
1.58E-03	3.26E+00	6.62E+00	1.88E+00	3.16E+00	1.55E+00	3.17E+00
1.26E-03	3.28E+00	6.69E+00	1.89E+00	3.16E+00	1.56E+00	3.17E+00
1.00E-03	3.29E+00	6.69E+00	1.89E+00	3.21E+00	1.56E+00	3.17E+00
7.94E-04	3.30E+00	6.70E+00	1.89E+00	3.21E+00	1.56E+00	3.19E+00
6.31E-04	3.30E+00	6.71E+00	1.90E+00	3.21E+00	1.56E+00	3.19E+00
5.01E-04	3.32E+00	6.79E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
3.98E-04	3.33E+00	6.81E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
3.16E-04	3.33E+00	6.81E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
2.51E-04	3.33E+00	6.81E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
2.00E-04	3.33E+00	6.83E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
1.58E-04	3.35E+00	6.83E+00	1.90E+00	3.22E+00	1.62E+00	3.19E+00
1.26E-04	3.35E+00	6.83E+00	1.90E+00	3.22E+00	1.62E+00	3.19E+00
1.00E-04	3.36E+00	6.90E+00	1.90E+00	3.23E+00	1.62E+00	3.19E+00
7.94E-05	3.37E+00	6.90E+00	1.90E+00	3.23E+00	1.65E+00	3.19E+00
OPERATION TIME (MIN)	198720	43200	44640	43200	44640	23040

TABLE 29. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 4-GAGE
(9.3-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.00E+00	4.04E-03	0.00E+00	8.96E-03	0.00E+00	8.96E-03	0.00E+00
7.94E-01	1.21E-02	0.00E+00	2.69E-02	0.00E+00	2.69E-02	0.00E+00
6.31E-01	3.13E-02	9.40E-03	6.27E-02	0.00E+00	6.72E-02	0.00E+00
5.01E-01	4.85E-02	9.40E-03	9.41E-02	0.00E+00	1.03E-01	1.74E-02
3.98E-01	7.37E-02	2.82E-02	1.21E-01	4.63E-03	1.52E-01	4.34E-02
3.16E-01	1.07E-01	4.23E-02	1.57E-01	1.39E-02	2.20E-01	8.68E-02
2.51E-01	1.69E-01	1.03E-01	2.24E-01	5.09E-02	3.09E-01	1.30E-01
1.99E-01	2.22E-01	1.60E-01	2.82E-01	7.87E-02	3.67E-01	2.08E-01
1.58E-01	3.00E-01	3.15E-01	3.63E-01	1.06E-01	4.26E-01	2.69E-01
1.26E-01	4.48E-01	6.62E-01	4.66E-01	1.57E-01	5.02E-01	4.60E-01
1.00E-01	6.88E-01	1.14E+00	6.23E-01	3.38E-01	6.00E-01	7.99E-01
7.94E-02	9.07E-01	1.54E+00	8.51E-01	4.58E-01	6.72E-01	1.15E+00
6.31E-02	1.11E+00	1.91E+00	1.07E+00	5.93E-01	7.62E-01	1.36E+00
5.01E-02	1.30E+00	2.27E+00	1.20E+00	7.73E-01	8.38E-01	1.59E+00
3.98E-02	1.56E+00	2.63E+00	1.39E+00	1.12E+00	9.77E-01	1.86E+00
3.16E-02	1.83E+00	3.09E+00	1.47E+00	1.52E+00	1.12E+00	2.15E+00
2.51E-02	2.08E+00	3.47E+00	1.59E+00	1.86E+00	1.28E+00	2.44E+00
1.99E-02	2.30E+00	3.82E+00	1.71E+00	2.13E+00	1.41E+00	2.70E+00
1.58E-02	2.54E+00	4.24E+00	1.84E+00	2.47E+00	1.48E+00	2.93E+00
1.26E-02	2.72E+00	4.58E+00	1.98E+00	2.66E+00	1.53E+00	3.12E+00
1.00E-02	2.88E+00	4.85E+00	2.06E+00	2.87E+00	1.63E+00	3.31E+00
7.94E-03	3.06E+00	5.08E+00	2.19E+00	3.10E+00	1.79E+00	3.37E+00
6.31E-03	3.21E+00	5.39E+00	2.27E+00	3.29E+00	1.87E+00	3.44E+00
5.01E-03	3.37E+00	5.71E+00	2.33E+00	3.50E+00	1.94E+00	3.55E+00
3.98E-03	3.48E+00	6.07E+00	2.36E+00	3.59E+00	1.98E+00	3.58E+00
3.16E-03	3.59E+00	6.32E+00	2.39E+00	3.68E+00	2.00E+00	3.76E+00
2.51E-03	3.67E+00	6.53E+00	2.44E+00	3.77E+00	2.04E+00	3.78E+00
2.00E-03	3.74E+00	6.70E+00	2.46E+00	3.81E+00	2.08E+00	3.83E+00
1.58E-03	3.82E+00	6.91E+00	2.52E+00	3.86E+00	2.10E+00	3.86E+00
1.26E-03	3.91E+00	7.24E+00	2.53E+00	3.93E+00	2.11E+00	3.87E+00
1.00E-03	3.94E+00	7.39E+00	2.53E+00	3.93E+00	2.12E+00	3.88E+00
7.94E-04	3.99E+00	7.57E+00	2.53E+00	3.95E+00	2.14E+00	3.88E+00
6.31E-04	4.03E+00	7.76E+00	2.53E+00	3.95E+00	2.14E+00	3.88E+00
5.01E-04	4.05E+00	7.79E+00	2.54E+00	3.98E+00	2.16E+00	3.88E+00
3.98E-04	4.08E+00	7.87E+00	2.54E+00	4.03E+00	2.17E+00	3.88E+00
3.16E-04	4.09E+00	7.88E+00	2.54E+00	4.03E+00	2.18E+00	3.88E+00
2.51E-04	4.10E+00	7.88E+00	2.54E+00	4.07E+00	2.18E+00	3.88E+00
2.00E-04	4.11E+00	7.94E+00	2.54E+00	4.07E+00	2.18E+00	3.89E+00
1.58E-04	4.12E+00	7.96E+00	2.54E+00	4.07E+00	2.18E+00	3.89E+00
1.26E-04	4.12E+00	7.96E+00	2.54E+00	4.07E+00	2.18E+00	3.89E+00
1.00E-04	4.12E+00	7.98E+00	2.55E+00	4.08E+00	2.18E+00	3.89E+00
7.94E-05	4.12E+00	7.98E+00	2.55E+00	4.08E+00	2.18E+00	3.89E+00
6.31E-05	4.14E+00	7.98E+00	2.55E+00	4.08E+00	2.27E+00	3.89E+00
5.01E-05	4.16E+00	8.06E+00	2.55E+00	4.08E+00	2.27E+00	3.89E+00
3.98E-05	4.16E+00	8.06E+00	2.55E+00	4.08E+00	2.27E+00	3.89E+00
3.16E-05	4.18E+00	8.13E+00	2.55E+00	4.09E+00	2.27E+00	3.89E+00
OPERATION TIME (MIN)	198090	42570	44640	43200	44640	23040

TABLE 30. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 6-GAGE
(15.0-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
6.31E-01	6.08E-03	0.00E+00	2.24E-02	0.00E+00	4.48E-03	0.00E+00
5.01E-01	1.93E-02	0.00E+00	5.82E-02	0.00E+00	2.69E-02	0.00E+00
3.98E-01	4.56E-02	4.78E-03	1.12E-01	0.00E+00	8.51E-02	0.00E+00
3.16E-01	8.01E-02	4.78E-02	1.66E-01	0.00E+00	1.30E-01	2.60E-02
2.51E-01	1.28E-01	9.08E-02	2.06E-01	4.63E-03	2.24E-01	8.68E-02
1.99E-01	1.97E-01	1.53E-01	2.78E-01	4.17E-02	3.23E-01	1.65E-01
1.58E-01	2.88E-01	2.87E-01	3.63E-01	8.80E-02	4.26E-01	2.52E-01
1.26E-01	4.11E-01	5.83E-01	4.30E-01	1.25E-01	5.06E-01	4.17E-01
1.00E-01	5.81E-01	9.84E-01	5.38E-01	2.45E-01	6.00E-01	5.21E-01
7.94E-02	8.04E-01	1.36E+00	7.03E-01	4.40E-01	6.94E-01	8.77E-01
6.31E-02	1.06E+00	1.73E+00	9.50E-01	6.20E-01	8.33E-01	1.31E+00
5.01E-02	1.28E+00	2.08E+00	1.19E+00	7.78E-01	9.18E-01	1.62E+00
3.98E-02	1.50E+00	2.50E+00	1.37E+00	1.01E+00	1.03E+00	1.81E+00
3.16E-02	1.78E+00	2.87E+00	1.53E+00	1.39E+00	1.17E+00	2.19E+00
2.51E-02	2.09E+00	3.26E+00	1.72E+00	1.86E+00	1.35E+00	2.53E+00
1.99E-02	2.33E+00	3.56E+00	1.94E+00	2.19E+00	1.47E+00	2.78E+00
1.58E-02	2.57E+00	3.83E+00	2.13E+00	2.63E+00	1.59E+00	2.94E+00
1.26E-02	2.78E+00	4.08E+00	2.30E+00	2.89E+00	1.69E+00	3.29E+00
1.00E-02	2.98E+00	4.41E+00	2.43E+00	3.15E+00	1.77E+00	3.47E+00
7.94E-03	3.13E+00	4.67E+00	2.54E+00	3.30E+00	1.84E+00	3.63E+00
6.31E-03	3.30E+00	5.04E+00	2.60E+00	3.49E+00	1.92E+00	3.79E+00
5.01E-03	3.46E+00	5.26E+00	2.77E+00	3.67E+00	2.07E+00	3.82E+00
3.98E-03	3.62E+00	5.61E+00	2.86E+00	3.81E+00	2.18E+00	3.97E+00
3.16E-03	3.78E+00	5.93E+00	2.95E+00	3.97E+00	2.28E+00	4.05E+00
2.51E-03	3.91E+00	6.30E+00	2.99E+00	4.07E+00	2.37E+00	4.06E+00
2.00E-03	4.04E+00	6.64E+00	3.01E+00	4.16E+00	2.41E+00	4.22E+00
1.58E-03	4.12E+00	6.85E+00	3.05E+00	4.21E+00	2.47E+00	4.24E+00
1.26E-03	4.18E+00	6.96E+00	3.07E+00	4.27E+00	2.54E+00	4.30E+00
1.00E-03	4.24E+00	7.12E+00	3.10E+00	4.33E+00	2.56E+00	4.34E+00
7.94E-04	4.32E+00	7.38E+00	3.11E+00	4.40E+00	2.57E+00	4.34E+00
6.31E-04	4.35E+00	7.49E+00	3.12E+00	4.41E+00	2.59E+00	4.36E+00
5.01E-04	4.40E+00	7.63E+00	3.14E+00	4.44E+00	2.60E+00	4.36E+00
3.98E-04	4.42E+00	7.74E+00	3.15E+00	4.44E+00	2.61E+00	4.37E+00
3.16E-04	4.44E+00	7.79E+00	3.16E+00	4.45E+00	2.62E+00	4.37E+00
2.51E-04	4.47E+00	7.87E+00	3.16E+00	4.50E+00	2.64E+00	4.37E+00
2.00E-04	4.49E+00	7.93E+00	3.16E+00	4.50E+00	2.64E+00	4.37E+00
1.58E-04	4.51E+00	8.00E+00	3.17E+00	4.53E+00	2.64E+00	4.37E+00
1.26E-04	4.52E+00	8.00E+00	3.17E+00	4.54E+00	2.64E+00	4.37E+00
1.00E-04	4.52E+00	8.00E+00	3.17E+00	4.54E+00	2.64E+00	4.37E+00
7.94E-05	4.52E+00	8.00E+00	3.17E+00	4.54E+00	2.64E+00	4.37E+00
6.31E-05	4.52E+00	8.01E+00	3.17E+00	4.55E+00	2.64E+00	4.38E+00
5.01E-05	4.52E+00	8.01E+00	3.17E+00	4.55E+00	2.64E+00	4.38E+00
3.98E-05	4.54E+00	8.01E+00	3.17E+00	4.55E+00	2.73E+00	4.38E+00
3.16E-05	4.55E+00	8.06E+00	3.18E+00	4.55E+00	2.73E+00	4.38E+00
2.51E-05	4.55E+00	8.06E+00	3.18E+00	4.55E+00	2.73E+00	4.38E+00
2.00E-05	4.55E+00	8.06E+00	3.18E+00	4.56E+00	2.73E+00	4.38E+00
OPERATION TIME (MIN)	197372	41852	44640	43200	44640	23040

TABLE 31. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 8-GAGE (21.0-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
5.01E-01	8.12E-03	1.44E-02	2.24E-02	0.00E+00	0.00E+00	0.00E+00
3.98E-01	3.14E-02	1.92E-02	8.51E-02	0.00E+00	3.58E-02	0.00E+00
3.16E-01	6.90E-02	2.88E-02	1.52E-01	0.00E+00	1.25E-01	0.00E+00
2.51E-01	1.35E-01	1.39E-01	2.24E-01	1.85E-02	2.11E-01	2.60E-02
1.99E-01	1.98E-01	2.02E-01	2.96E-01	6.02E-02	2.87E-01	8.68E-02
1.58E-01	3.00E-01	3.80E-01	3.54E-01	1.02E-01	3.94E-01	2.43E-01
1.26E-01	4.31E-01	6.39E-01	4.26E-01	2.04E-01	4.79E-01	3.99E-01
1.00E-01	5.94E-01	9.85E-01	5.33E-01	3.19E-01	5.96E-01	5.21E-01
7.94E-02	7.93E-01	1.38E+00	6.72E-01	4.86E-01	6.85E-01	7.55E-01
6.31E-02	1.02E+00	1.81E+00	8.78E-01	6.57E-01	7.62E-01	1.06E+00
5.01E-02	1.28E+00	2.21E+00	1.14E+00	8.70E-01	8.74E-01	1.46E+00
3.98E-02	1.57E+00	2.61E+00	1.39E+00	1.12E+00	1.00E+00	1.98E+00
3.16E-02	1.80E+00	2.97E+00	1.59E+00	1.31E+00	1.11E+00	2.33E+00
2.51E-02	2.08E+00	3.30E+00	1.79E+00	1.74E+00	1.28E+00	2.63E+00
1.99E-02	2.38E+00	3.64E+00	2.05E+00	2.14E+00	1.46E+00	2.95E+00
1.58E-02	2.62E+00	3.86E+00	2.26E+00	2.58E+00	1.57E+00	3.15E+00
1.26E-02	2.81E+00	4.10E+00	2.41E+00	2.87E+00	1.68E+00	3.32E+00
1.00E-02	3.04E+00	4.39E+00	2.65E+00	3.11E+00	1.80E+00	3.60E+00
7.94E-03	3.27E+00	4.72E+00	2.78E+00	3.40E+00	1.94E+00	3.94E+00
6.31E-03	3.48E+00	5.08E+00	2.92E+00	3.60E+00	2.08E+00	4.14E+00
5.01E-03	3.66E+00	5.45E+00	3.05E+00	3.78E+00	2.16E+00	4.33E+00
3.98E-03	3.86E+00	5.77E+00	3.18E+00	4.00E+00	2.30E+00	4.52E+00
3.16E-03	4.06E+00	6.18E+00	3.29E+00	4.20E+00	2.39E+00	4.66E+00
2.51E-03	4.23E+00	6.58E+00	3.36E+00	4.35E+00	2.50E+00	4.77E+00
2.00E-03	4.34E+00	6.82E+00	3.42E+00	4.44E+00	2.59E+00	4.82E+00
1.58E-03	4.45E+00	7.15E+00	3.45E+00	4.52E+00	2.67E+00	4.86E+00
1.26E-03	4.57E+00	7.46E+00	3.49E+00	4.61E+00	2.71E+00	4.99E+00
1.00E-03	4.67E+00	7.69E+00	3.53E+00	4.71E+00	2.76E+00	5.03E+00
7.94E-04	4.75E+00	7.86E+00	3.58E+00	4.76E+00	2.80E+00	5.10E+00
6.31E-04	4.81E+00	8.07E+00	3.58E+00	4.86E+00	2.81E+00	5.10E+00
5.01E-04	4.90E+00	8.30E+00	3.60E+00	4.92E+00	2.89E+00	5.13E+00
3.98E-04	4.94E+00	8.40E+00	3.63E+00	4.95E+00	2.89E+00	5.13E+00
3.16E-04	5.01E+00	8.69E+00	3.65E+00	4.96E+00	2.90E+00	5.13E+00
2.51E-04	5.04E+00	8.80E+00	3.66E+00	5.00E+00	2.91E+00	5.14E+00
2.00E-04	5.07E+00	8.88E+00	3.67E+00	5.01E+00	2.94E+00	5.15E+00
1.58E-04	5.09E+00	8.89E+00	3.67E+00	5.06E+00	2.96E+00	5.15E+00
1.26E-04	5.13E+00	9.01E+00	3.67E+00	5.09E+00	2.97E+00	5.16E+00
1.00E-04	5.13E+00	9.03E+00	3.68E+00	5.09E+00	2.97E+00	5.17E+00
7.94E-05	5.14E+00	9.05E+00	3.68E+00	5.10E+00	2.97E+00	5.17E+00
6.31E-05	5.14E+00	9.05E+00	3.68E+00	5.11E+00	2.97E+00	5.17E+00
5.01E-05	5.14E+00	9.05E+00	3.68E+00	5.11E+00	2.97E+00	5.17E+00
3.98E-05	5.14E+00	9.05E+00	3.68E+00	5.11E+00	2.97E+00	5.17E+00
3.16E-05	5.15E+00	9.05E+00	3.68E+00	5.11E+00	3.00E+00	5.17E+00
2.51E-05	5.17E+00	9.10E+00	3.68E+00	5.12E+00	3.06E+00	5.17E+00
2.00E-05	5.17E+00	9.10E+00	3.68E+00	5.12E+00	3.06E+00	5.17E+00
1.58E-05	5.17E+00	9.10E+00	3.68E+00	5.12E+00	3.06E+00	5.17E+00
OPERATION TIME (MIN)	197146	41626	44640	43200	44640	23040

TABLE 32. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 10-GAGE
(26.9-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
5.01E-01	4.06E-03	1.93E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.98E-01	1.83E-02	2.41E-02	4.48E-02	0.00E+00	1.34E-02	0.00E+00
3.16E-01	4.57E-02	3.37E-02	1.16E-01	0.00E+00	5.38E-02	0.00E+00
2.51E-01	1.10E-01	1.06E-01	2.11E-01	9.26E-03	1.66E-01	0.00E+00
1.99E-01	1.82E-01	1.93E-01	2.73E-01	7.87E-02	2.55E-01	3.47E-02
1.58E-01	2.81E-01	3.42E-01	3.41E-01	1.39E-01	3.72E-01	1.48E-01
1.26E-01	4.10E-01	5.98E-01	4.08E-01	1.90E-01	4.75E-01	3.65E-01
1.00E-01	5.85E-01	9.54E-01	4.93E-01	3.61E-01	5.73E-01	5.38E-01
7.94E-02	7.72E-01	1.35E+00	6.09E-01	5.28E-01	6.54E-01	7.29E-01
6.31E-02	1.01E+00	1.81E+00	8.38E-01	7.08E-01	7.21E-01	1.07E+00
5.01E-02	1.30E+00	2.34E+00	1.11E+00	9.26E-01	8.29E-01	1.42E+00
3.98E-02	1.58E+00	2.74E+00	1.38E+00	1.15E+00	9.41E-01	1.92E+00
3.16E-02	1.84E+00	3.04E+00	1.62E+00	1.42E+00	1.07E+00	2.38E+00
2.51E-02	2.11E+00	3.38E+00	1.80E+00	1.76E+00	1.23E+00	2.75E+00
1.99E-02	2.39E+00	3.68E+00	2.03E+00	2.27E+00	1.39E+00	2.95E+00
1.58E-02	2.69E+00	3.97E+00	2.28E+00	2.69E+00	1.58E+00	3.31E+00
1.26E-02	2.96E+00	4.25E+00	2.52E+00	3.13E+00	1.73E+00	3.50E+00
1.00E-02	3.20E+00	4.62E+00	2.68E+00	3.45E+00	1.87E+00	3.77E+00
7.94E-03	3.49E+00	4.89E+00	2.93E+00	3.75E+00	2.10E+00	4.22E+00
6.31E-03	3.73E+00	5.18E+00	3.11E+00	4.06E+00	2.28E+00	4.54E+00
5.01E-03	3.97E+00	5.53E+00	3.28E+00	4.31E+00	2.45E+00	4.83E+00
3.98E-03	4.16E+00	5.89E+00	3.42E+00	4.49E+00	2.50E+00	5.03E+00
3.16E-03	4.36E+00	6.25E+00	3.64E+00	4.61E+00	2.63E+00	5.23E+00
2.51E-03	4.55E+00	6.61E+00	3.78E+00	4.81E+00	2.73E+00	5.39E+00
2.00E-03	4.70E+00	6.91E+00	3.85E+00	4.92E+00	2.84E+00	5.54E+00
1.58E-03	4.82E+00	7.20E+00	3.93E+00	4.98E+00	2.93E+00	5.61E+00
1.26E-03	4.96E+00	7.64E+00	3.97E+00	5.06E+00	3.02E+00	5.62E+00
1.00E-03	5.08E+00	7.93E+00	4.01E+00	5.15E+00	3.09E+00	5.75E+00
7.94E-04	5.19E+00	8.14E+00	4.09E+00	5.30E+00	3.15E+00	5.82E+00
6.31E-04	5.28E+00	8.30E+00	4.16E+00	5.37E+00	3.20E+00	5.88E+00
5.01E-04	5.36E+00	8.48E+00	4.16E+00	5.46E+00	3.22E+00	6.00E+00
3.98E-04	5.43E+00	8.66E+00	4.18E+00	5.52E+00	3.29E+00	6.02E+00
3.16E-04	5.51E+00	8.92E+00	4.26E+00	5.55E+00	3.30E+00	6.04E+00
2.51E-04	5.55E+00	9.04E+00	4.27E+00	5.57E+00	3.31E+00	6.04E+00
2.00E-04	5.59E+00	9.17E+00	4.28E+00	5.60E+00	3.33E+00	6.05E+00
1.58E-04	5.62E+00	9.25E+00	4.29E+00	5.61E+00	3.35E+00	6.06E+00
1.26E-04	5.63E+00	9.26E+00	4.29E+00	5.66E+00	3.36E+00	6.06E+00
1.00E-04	5.65E+00	9.30E+00	4.30E+00	5.69E+00	3.36E+00	6.07E+00
7.94E-05	5.66E+00	9.30E+00	4.30E+00	5.71E+00	3.36E+00	6.08E+00
6.31E-05	5.66E+00	9.31E+00	4.31E+00	5.72E+00	3.36E+00	6.08E+00
5.01E-05	5.67E+00	9.33E+00	4.31E+00	5.72E+00	3.36E+00	6.08E+00
3.98E-05	5.67E+00	9.33E+00	4.31E+00	5.73E+00	3.36E+00	6.08E+00
3.16E-05	5.67E+00	9.33E+00	4.31E+00	5.73E+00	3.36E+00	6.08E+00
2.51E-05	5.68E+00	9.33E+00	4.31E+00	5.73E+00	3.39E+00	6.08E+00
2.00E-05	5.70E+00	9.38E+00	4.31E+00	5.73E+00	3.45E+00	6.08E+00
1.58E-05	5.70E+00	9.38E+00	4.31E+00	5.73E+00	3.45E+00	6.08E+00
1.26E-05	5.70E+00	9.38E+00	4.31E+00	5.73E+00	3.45E+00	6.08E+00
OPERATION TIME (MIN)	197010	41490	44640	43200	44640	23040

TABLE 33. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 12-GAGE
(33.2-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
5.01E-01	1.02E-03	0.00E+00	4.48E-03	0.00E+00	0.00E+00	0.00E+00
3.98E-01	1.73E-02	2.41E-02	2.69E-02	0.00E+00	2.69E-02	0.00E+00
3.16E-01	3.45E-02	2.90E-02	7.17E-02	4.63E-03	4.93E-02	0.00E+00
2.51E-01	6.50E-02	3.86E-02	1.57E-01	9.26E-03	8.51E-02	0.00E+00
1.99E-01	1.47E-01	1.74E-01	2.46E-01	3.70E-02	2.02E-01	8.68E-03
1.58E-01	2.42E-01	2.99E-01	3.23E-01	1.44E-01	2.96E-01	6.08E-02
1.26E-01	3.70E-01	5.12E-01	4.08E-01	2.22E-01	4.17E-01	2.26E-01
1.00E-01	5.51E-01	8.79E-01	4.75E-01	3.33E-01	5.60E-01	5.03E-01
7.94E-02	7.77E-01	1.35E+00	5.87E-01	6.02E-01	6.36E-01	7.20E-01
6.31E-02	1.01E+00	1.78E+00	7.21E-01	8.75E-01	7.21E-01	1.03E+00
5.01E-02	1.27E+00	2.22E+00	1.05E+00	1.06E+00	8.06E-01	1.31E+00
3.98E-02	1.59E+00	2.76E+00	1.35E+00	1.31E+00	9.27E-01	1.73E+00
3.16E-02	1.90E+00	3.12E+00	1.61E+00	1.62E+00	1.14E+00	2.22E+00
2.51E-02	2.18E+00	3.45E+00	1.86E+00	1.97E+00	1.28E+00	2.62E+00
1.99E-02	2.51E+00	3.77E+00	2.09E+00	2.53E+00	1.49E+00	2.97E+00
1.58E-02	2.81E+00	4.02E+00	2.40E+00	2.97E+00	1.69E+00	3.32E+00
1.26E-02	3.12E+00	4.32E+00	2.67E+00	3.29E+00	1.93E+00	3.82E+00
1.00E-02	3.45E+00	4.72E+00	2.93E+00	3.69E+00	2.12E+00	4.25E+00
7.94E-03	3.75E+00	5.09E+00	3.15E+00	4.02E+00	2.33E+00	4.76E+00
6.31E-03	4.08E+00	5.39E+00	3.49E+00	4.41E+00	2.53E+00	5.26E+00
5.01E-03	4.34E+00	5.67E+00	3.68E+00	4.74E+00	2.67E+00	5.69E+00
3.98E-03	4.57E+00	6.00E+00	3.84E+00	4.97E+00	2.88E+00	5.94E+00
3.16E-03	4.81E+00	6.37E+00	4.06E+00	5.16E+00	2.99E+00	6.28E+00
2.51E-03	5.00E+00	6.62E+00	4.28E+00	5.30E+00	3.13E+00	6.55E+00
2.00E-03	5.21E+00	7.08E+00	4.44E+00	5.49E+00	3.24E+00	6.67E+00
1.58E-03	5.39E+00	7.48E+00	4.54E+00	5.60E+00	3.32E+00	6.89E+00
1.26E-03	5.52E+00	7.81E+00	4.60E+00	5.69E+00	3.39E+00	7.01E+00
1.00E-03	5.66E+00	8.17E+00	4.69E+00	5.78E+00	3.46E+00	7.07E+00
7.94E-04	5.80E+00	8.49E+00	4.79E+00	5.88E+00	3.49E+00	7.21E+00
6.31E-04	5.92E+00	8.67E+00	4.87E+00	6.01E+00	3.59E+00	7.31E+00
5.01E-04	5.99E+00	8.82E+00	4.95E+00	6.04E+00	3.66E+00	7.37E+00
3.98E-04	6.08E+00	9.01E+00	4.99E+00	6.13E+00	3.67E+00	7.53E+00
3.16E-04	6.18E+00	9.20E+00	5.06E+00	6.17E+00	3.80E+00	7.54E+00
2.51E-04	6.23E+00	9.30E+00	5.09E+00	6.21E+00	3.83E+00	7.57E+00
2.00E-04	6.28E+00	9.52E+00	5.11E+00	6.22E+00	3.83E+00	7.58E+00
1.58E-04	6.32E+00	9.63E+00	5.12E+00	6.25E+00	3.86E+00	7.58E+00
1.26E-04	6.35E+00	9.71E+00	5.13E+00	6.27E+00	3.89E+00	7.59E+00
1.00E-04	6.36E+00	9.71E+00	5.13E+00	6.32E+00	3.90E+00	7.59E+00
7.94E-05	6.38E+00	9.73E+00	5.14E+00	6.35E+00	3.90E+00	7.60E+00
6.31E-05	6.38E+00	9.73E+00	5.14E+00	6.35E+00	3.90E+00	7.62E+00
5.01E-05	6.38E+00	9.74E+00	5.14E+00	6.36E+00	3.90E+00	7.62E+00
3.98E-05	6.39E+00	9.74E+00	5.14E+00	6.36E+00	3.90E+00	7.62E+00
3.16E-05	6.39E+00	9.74E+00	5.15E+00	6.37E+00	3.90E+00	7.62E+00
2.51E-05	6.39E+00	9.74E+00	5.15E+00	6.37E+00	3.90E+00	7.62E+00
2.00E-05	6.40E+00	9.74E+00	5.15E+00	6.37E+00	3.93E+00	7.62E+00
1.58E-05	6.42E+00	9.80E+00	5.15E+00	6.37E+00	3.99E+00	7.62E+00
1.26E-05	6.42E+00	9.80E+00	5.15E+00	6.37E+00	3.99E+00	7.62E+00
1.00E-05	6.42E+00	9.80E+00	5.15E+00	6.37E+00	3.99E+00	7.62E+00
OPERATION TIME (MIN)	196946	41426	44640	43200	44640	23040

TABLE 34. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 14-GAGE (39.2-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 19 70

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
3.98E-01	6.09E-03	9.67E-03	1.34E-02	0.00E+00	4.48E-03	0.00E+00
3.16E-01	2.34E-02	2.42E-02	4.48E-02	4.63E-03	3.14E-02	0.00E+00
2.51E-01	5.28E-02	3.87E-02	1.21E-01	9.26E-03	6.72E-02	0.00E+00
1.99E-01	1.10E-01	1.06E-01	1.79E-01	4.17E-02	1.66E-01	0.00E+00
1.58E-01	2.25E-01	2.90E-01	2.96E-01	1.57E-01	2.69E-01	1.74E-02
1.26E-01	3.44E-01	4.64E-01	3.94E-01	2.78E-01	3.72E-01	1.04E-01
1.00E-01	5.32E-01	8.26E-01	4.70E-01	4.17E-01	5.29E-01	3.47E-01
7.94E-02	7.45E-01	1.23E+00	6.00E-01	6.39E-01	6.23E-01	5.82E-01
6.31E-02	9.83E-01	1.66E+00	7.62E-01	8.80E-01	7.17E-01	9.03E-01
5.01E-02	1.26E+00	2.13E+00	1.03E+00	1.13E+00	8.47E-01	1.20E+00
3.98E-02	1.56E+00	2.67E+00	1.36E+00	1.34E+00	9.45E-01	1.56E+00
3.16E-02	1.89E+00	3.06E+00	1.64E+00	1.75E+00	1.12E+00	2.00E+00
2.51E-02	2.19E+00	3.45E+00	1.89E+00	2.09E+00	1.33E+00	2.40E+00
1.99E-02	2.53E+00	3.75E+00	2.12E+00	2.59E+00	1.57E+00	2.89E+00
1.58E-02	2.84E+00	4.02E+00	2.39E+00	3.06E+00	1.76E+00	3.27E+00
1.26E-02	3.16E+00	4.28E+00	2.70E+00	3.48E+00	1.96E+00	3.75E+00
1.00E-02	3.51E+00	4.65E+00	3.04E+00	3.79E+00	2.21E+00	4.37E+00
7.94E-03	3.86E+00	4.99E+00	3.32E+00	4.20E+00	2.44E+00	4.99E+00
6.31E-03	4.17E+00	5.33E+00	3.67E+00	4.53E+00	2.61E+00	5.38E+00
5.01E-03	4.45E+00	5.58E+00	3.87E+00	4.89E+00	2.81E+00	5.91E+00
3.98E-03	4.70E+00	5.90E+00	4.08E+00	5.17E+00	2.97E+00	6.22E+00
3.16E-03	4.98E+00	6.32E+00	4.36E+00	5.42E+00	3.15E+00	6.51E+00
2.51E-03	5.24E+00	6.74E+00	4.59E+00	5.65E+00	3.27E+00	6.85E+00
2.00E-03	5.45E+00	7.10E+00	4.85E+00	5.81E+00	3.39E+00	7.01E+00
1.58E-03	5.67E+00	7.55E+00	4.99E+00	5.96E+00	3.49E+00	7.28E+00
1.26E-03	5.86E+00	8.01E+00	5.08E+00	6.12E+00	3.56E+00	7.47E+00
1.00E-03	6.03E+00	8.44E+00	5.24E+00	6.17E+00	3.64E+00	7.55E+00
7.94E-04	6.14E+00	8.73E+00	5.30E+00	6.27E+00	3.69E+00	7.65E+00
6.31E-04	6.28E+00	9.01E+00	5.40E+00	6.39E+00	3.77E+00	7.73E+00
5.01E-04	6.39E+00	9.19E+00	5.48E+00	6.47E+00	3.89E+00	7.86E+00
3.98E-04	6.49E+00	9.38E+00	5.57E+00	6.54E+00	3.92E+00	7.98E+00
3.16E-04	6.58E+00	9.58E+00	5.58E+00	6.60E+00	3.99E+00	8.12E+00
2.51E-04	6.65E+00	9.79E+00	5.61E+00	6.61E+00	4.03E+00	8.17E+00
2.00E-04	6.71E+00	9.90E+00	5.70E+00	6.64E+00	4.05E+00	8.19E+00
1.58E-04	6.77E+00	1.01E+01	5.73E+00	6.67E+00	4.05E+00	8.26E+00
1.26E-04	6.81E+00	1.02E+01	5.74E+00	6.71E+00	4.08E+00	8.28E+00
1.00E-04	6.85E+00	1.03E+01	5.74E+00	6.78E+00	4.09E+00	8.29E+00
7.94E-05	6.85E+00	1.03E+01	5.75E+00	6.78E+00	4.09E+00	8.30E+00
6.31E-05	6.86E+00	1.03E+01	5.75E+00	6.81E+00	4.09E+00	8.32E+00
5.01E-05	6.87E+00	1.03E+01	5.75E+00	6.81E+00	4.09E+00	8.32E+00
3.98E-05	6.87E+00	1.03E+01	5.76E+00	6.82E+00	4.09E+00	8.32E+00
3.16E-05	6.87E+00	1.03E+01	5.76E+00	6.82E+00	4.09E+00	8.32E+00
2.51E-05	6.87E+00	1.03E+01	5.76E+00	6.83E+00	4.09E+00	8.32E+00
2.00E-05	6.87E+00	1.03E+01	5.76E+00	6.83E+00	4.09E+00	8.32E+00
1.58E-05	6.90E+00	1.03E+01	5.76E+00	6.83E+00	4.18E+00	8.32E+00
1.26E-05	6.91E+00	1.04E+01	5.77E+00	6.84E+00	4.19E+00	8.33E+00
1.00E-05	6.91E+00	1.04E+01	5.77E+00	6.84E+00	4.19E+00	8.33E+00
7.94E-06	6.91E+00	1.04E+01	5.77E+00	6.84E+00	4.19E+00	8.33E+00
OPERATION TIME (MIN)	196906	41386	44640	43200	44640	23040

TABLE 35. FREQUENCIES OF 2-MINUTE PRECIPITATION RATES FOR GAGE NO. 97 IN CENTRAL ILLINOIS FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.26E+00	3.03E-03	0.00E+00	0.00E+00	0.00E+00	1.34E-02	0.00E+00
1.00E+00	1.01E-02	0.00E+00	8.96E-03	0.00E+00	3.58E-02	0.00E+00
7.94E-01	2.02E-02	0.00E+00	3.58E-02	0.00E+00	5.38E-02	0.00E+00
6.31E-01	4.04E-02	0.00E+00	5.38E-02	4.63E-03	1.08E-01	2.60E-02
5.01E-01	6.57E-02	1.42E-02	8.06E-02	1.85E-02	1.57E-01	4.34E-02
3.98E-01	8.69E-02	2.36E-02	1.21E-01	3.70E-02	1.84E-01	4.34E-02
3.16E-01	1.10E-01	5.20E-02	1.39E-01	3.70E-02	2.37E-01	5.21E-02
2.51E-01	1.33E-01	7.09E-02	1.43E-01	6.48E-02	2.82E-01	6.94E-02
1.99E-01	1.74E-01	1.28E-01	1.79E-01	9.26E-02	3.23E-01	1.13E-01
1.58E-01	2.29E-01	2.13E-01	2.06E-01	1.16E-01	3.81E-01	2.26E-01
1.26E-01	3.56E-01	5.44E-01	2.64E-01	1.85E-01	4.21E-01	3.82E-01
1.00E-01	5.13E-01	9.45E-01	3.36E-01	2.69E-01	4.75E-01	5.90E-01
7.94E-02	7.37E-01	1.31E+00	5.11E-01	6.02E-01	5.33E-01	7.73E-01
6.31E-02	9.20E-01	1.73E+00	6.59E-01	7.08E-01	5.69E-01	1.02E+00
5.01E-02	1.15E+00	2.19E+00	9.23E-01	8.56E-01	6.68E-01	1.21E+00
3.98E-02	1.38E+00	2.61E+00	1.07E+00	1.10E+00	7.12E-01	1.55E+00
3.16E-02	1.58E+00	2.95E+00	1.19E+00	1.32E+00	7.84E-01	1.87E+00
2.51E-02	1.82E+00	3.40E+00	1.28E+00	1.56E+00	8.92E-01	2.22E+00
1.99E-02	2.04E+00	3.95E+00	1.34E+00	1.78E+00	1.03E+00	2.32E+00
1.58E-02	2.22E+00	4.26E+00	1.41E+00	2.06E+00	1.05E+00	2.56E+00
1.26E-02	2.42E+00	4.88E+00	1.42E+00	2.26E+00	1.12E+00	2.65E+00
1.00E-02	2.56E+00	5.28E+00	1.47E+00	2.37E+00	1.16E+00	2.77E+00
7.94E-03	2.67E+00	5.57E+00	1.51E+00	2.45E+00	1.19E+00	2.86E+00
6.31E-03	2.80E+00	5.87E+00	1.53E+00	2.61E+00	1.29E+00	2.88E+00
5.01E-03	2.87E+00	6.09E+00	1.57E+00	2.64E+00	1.33E+00	2.89E+00
3.98E-03	2.96E+00	6.42E+00	1.58E+00	2.71E+00	1.33E+00	2.92E+00
3.16E-03	3.04E+00	6.66E+00	1.58E+00	2.75E+00	1.36E+00	2.99E+00
2.51E-03	3.09E+00	6.89E+00	1.59E+00	2.75E+00	1.36E+00	2.99E+00
2.00E-03	3.12E+00	7.01E+00	1.59E+00	2.75E+00	1.37E+00	3.00E+00
1.58E-03	3.13E+00	7.04E+00	1.59E+00	2.76E+00	1.37E+00	3.00E+00
1.26E-03	3.14E+00	7.11E+00	1.60E+00	2.76E+00	1.37E+00	3.00E+00
1.00E-03	3.16E+00	7.13E+00	1.60E+00	2.81E+00	1.37E+00	3.02E+00
7.94E-04	3.16E+00	7.14E+00	1.60E+00	2.81E+00	1.37E+00	3.02E+00
6.31E-04	3.16E+00	7.14E+00	1.60E+00	2.81E+00	1.37E+00	3.02E+00
5.01E-04	3.19E+00	7.24E+00	1.61E+00	2.82E+00	1.37E+00	3.02E+00
3.98E-04	3.19E+00	7.24E+00	1.61E+00	2.83E+00	1.37E+00	3.02E+00
3.16E-04	3.19E+00	7.24E+00	1.61E+00	2.83E+00	1.37E+00	3.02E+00
2.51E-04	3.19E+00	7.24E+00	1.61E+00	2.83E+00	1.37E+00	3.02E+00
2.00E-04	3.21E+00	7.25E+00	1.61E+00	2.83E+00	1.45E+00	3.02E+00
OPERATION TIME (MIN)	197830	42310	44640	43200	44640	23040

TABLE 36. A SUMMARY OF THE FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR VARIOUS LENGTHS OF NORTH-SOUTH LINES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD							
	14-GAGE	12-GAGE	10-GAGE	8-GAGE	6-GAGE	4-GAGE	2-GAGE	1-GAGE
2.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00
1.99E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.03E-03	0.00E+00
1.58E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-03	1.21E-02	0.00E+00
1.26E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-03	6.05E-03	2.62E-02	3.03E-03
1.00E+00	0.00E+00	0.00E+00	0.00E+00	3.04E-03	6.08E-03	1.11E-02	4.43E-02	1.01E-02
7.94E-01	0.00E+00	0.00E+00	3.04E-03	6.08E-03	1.11E-02	1.61E-02	7.05E-02	2.02E-02
6.31E-01	1.02E-03	3.04E-03	6.08E-03	1.22E-02	1.42E-02	3.33E-02	9.46E-02	4.04E-02
5.01E-01	5.08E-03	9.13E-03	1.62E-02	2.23E-02	2.94E-02	6.25E-02	1.29E-01	6.57E-02
3.98E-01	1.63E-02	2.74E-02	3.04E-02	4.56E-02	6.18E-02	9.39E-02	1.58E-01	8.69E-02
3.16E-01	3.76E-02	4.97E-02	6.59E-02	7.91E-02	1.18E-01	1.41E-01	1.98E-01	1.10E-01
2.51E-01	7.01E-02	9.23E-02	1.20E-01	1.42E-01	1.68E-01	2.01E-01	2.97E-01	1.33E-01
1.99E-01	1.31E-01	1.62E-01	1.91E-01	2.11E-01	2.14E-01	2.64E-01	4.53E-01	1.74E-01
1.58E-01	2.22E-01	2.57E-01	2.72E-01	3.09E-01	3.13E-01	3.97E-01	6.42E-01	2.29E-01
1.26E-01	3.55E-01	4.25E-01	4.34E-01	4.83E-01	4.85E-01	5.81E-01	8.42E-01	3.56E-01
1.00E-01	5.38E-01	6.00E-01	6.10E-01	6.56E-01	6.85E-01	7.83E-01	1.07E+00	5.13E-01
7.94E-02	7.44E-01	8.52E-01	8.68E-01	8.98E-01	9.09E-01	9.86E-01	1.28E+00	7.37E-01
6.31E-02	1.02E+00	1.11E+00	1.12E+00	1.14E+00	1.13E+00	1.23E+00	1.51E+00	9.20E-01
5.01E-02	1.27E+00	1.38E+00	1.39E+00	1.41E+00	1.38E+00	1.44E+00	1.75E+00	1.15E+00
3.98E-02	1.57E+00	1.69E+00	1.68E+00	1.68E+00	1.62E+00	1.73E+00	1.94E+00	1.38E+00
3.16E-02	1.92E+00	2.01E+00	1.98E+00	1.97E+00	1.91E+00	1.99E+00	2.16E+00	1.58E+00
2.51E-02	2.26E+00	2.33E+00	2.31E+00	2.30E+00	2.21E+00	2.22E+00	2.36E+00	1.82E+00
1.99E-02	2.59E+00	2.66E+00	2.63E+00	2.58E+00	2.49E+00	2.52E+00	2.53E+00	2.04E+00
1.58E-02	2.91E+00	2.96E+00	2.89E+00	2.87E+00	2.75E+00	2.73E+00	2.65E+00	2.22E+00
1.26E-02	3.26E+00	3.27E+00	3.19E+00	3.13E+00	3.00E+00	2.93E+00	2.78E+00	2.42E+00
1.00E-02	3.56E+00	3.56E+00	3.46E+00	3.37E+00	3.24E+00	3.13E+00	2.86E+00	2.56E+00
7.94E-03	3.84E+00	3.83E+00	3.71E+00	3.61E+00	3.45E+00	3.37E+00	2.93E+00	2.67E+00
6.31E-03	4.13E+00	4.11E+00	3.97E+00	3.85E+00	3.68E+00	3.55E+00	3.00E+00	2.80E+00
5.01E-03	4.42E+00	4.40E+00	4.21E+00	4.08E+00	3.88E+00	3.70E+00	3.08E+00	2.87E+00
3.98E-03	4.69E+00	4.64E+00	4.45E+00	4.28E+00	4.08E+00	3.81E+00	3.13E+00	2.96E+00
3.16E-03	4.99E+00	4.91E+00	4.70E+00	4.51E+00	4.23E+00	3.95E+00	3.19E+00	3.04E+00
2.51E-03	5.32E+00	5.18E+00	4.94E+00	4.70E+00	4.39E+00	4.02E+00	3.23E+00	3.09E+00
2.00E-03	5.60E+00	5.45E+00	5.15E+00	4.88E+00	4.52E+00	4.09E+00	3.27E+00	3.12E+00
1.58E-03	5.84E+00	5.65E+00	5.30E+00	5.02E+00	4.63E+00	4.19E+00	3.28E+00	3.13E+00
1.26E-03	6.08E+00	5.83E+00	5.44E+00	5.14E+00	4.70E+00	4.29E+00	3.31E+00	3.14E+00
1.00E-03	6.31E+00	5.99E+00	5.58E+00	5.23E+00	4.80E+00	4.37E+00	3.33E+00	3.16E+00
7.94E-04	6.49E+00	6.14E+00	5.68E+00	5.30E+00	4.89E+00	4.47E+00	3.35E+00	3.16E+00
6.31E-04	6.63E+00	6.26E+00	5.76E+00	5.41E+00	4.95E+00	4.52E+00	3.36E+00	3.16E+00
5.01E-04	6.75E+00	6.36E+00	5.88E+00	5.51E+00	5.07E+00	4.53E+00	3.39E+00	3.19E+00
3.98E-04	6.88E+00	6.47E+00	5.99E+00	5.59E+00	5.13E+00	4.56E+00	3.41E+00	3.19E+00
3.16E-04	6.97E+00	6.60E+00	6.06E+00	5.66E+00	5.16E+00	4.58E+00	3.42E+00	3.19E+00
2.51E-04	7.08E+00	6.65E+00	6.14E+00	5.72E+00	5.20E+00	4.58E+00	3.43E+00	3.19E+00
2.00E-04	7.15E+00	6.72E+00	6.17E+00	5.73E+00	5.21E+00	4.59E+00	3.45E+00	3.21E+00
1.58E-04	7.20E+00	6.77E+00	6.18E+00	5.77E+00	5.22E+00	4.60E+00	3.45E+00	3.21E+00
1.26E-04	7.25E+00	6.80E+00	6.23E+00	5.78E+00	5.22E+00	4.60E+00	3.45E+00	3.21E+00
1.00E-04	7.29E+00	6.84E+00	6.23E+00	5.78E+00	5.23E+00	4.60E+00	3.45E+00	3.21E+00
7.94E-05	7.33E+00	6.86E+00	6.24E+00	5.79E+00	5.25E+00	4.60E+00	3.46E+00	3.21E+00
6.31E-05	7.35E+00	6.86E+00	6.24E+00	5.79E+00	5.25E+00	4.61E+00	3.46E+00	3.21E+00
5.01E-05	7.37E+00	6.87E+00	6.24E+00	5.81E+00	5.25E+00	4.61E+00	3.46E+00	3.21E+00
3.98E-05	7.38E+00	6.88E+00	6.27E+00	5.81E+00	5.25E+00	4.61E+00	3.46E+00	3.21E+00
3.16E-05	7.40E+00	6.89E+00	6.27E+00	5.81E+00	5.25E+00	4.61E+00	3.46E+00	3.21E+00
2.51E-05	7.40E+00	6.89E+00	6.27E+00	5.82E+00	5.25E+00	4.61E+00	3.46E+00	3.21E+00
2.00E-05	7.40E+00	6.89E+00	6.28E+00	5.82E+00	5.25E+00	4.61E+00	3.46E+00	3.21E+00
1.58E-05	7.40E+00	6.89E+00	6.28E+00	5.82E+00	5.25E+00	4.61E+00	3.46E+00	3.21E+00
1.26E-05	7.40E+00	6.89E+00	6.28E+00	5.82E+00	5.25E+00	4.61E+00	3.46E+00	3.21E+00
1.00E-05	7.40E+00	6.89E+00	6.28E+00	5.82E+00	5.25E+00	4.61E+00	3.46E+00	3.21E+00
7.94E-06	7.41E+00	6.89E+00	6.28E+00	5.82E+00	5.25E+00	4.61E+00	3.46E+00	3.21E+00
6.31E-06	7.41E+00	6.89E+00	6.28E+00	5.82E+00	5.25E+00	4.61E+00	3.46E+00	3.21E+00
OPERATION TIME (MIN)	196760	197118	197284	197292	197492	198244	198720	197830

TABLE 37. A SUMMARY OF THE FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES
FOR VARIOUS LENGTHS OF EAST-WEST LINES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD							
	14-GAGE	12-GAGE	10-GAGE	8-GAGE	6-GAGE	4-GAGE	2-GAGE	1-GAGE
1.58E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-03	0.00E+00
1.26E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.04E-03	3.03E-03
1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-03	1.61E-02	1.01E-02
7.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-02	3.22E-02	2.02E-02
6.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E-03	3.13E-02	5.74E-02	4.04E-02
5.01E-01	0.00E+00	1.02E-03	4.06E-03	8.12E-03	1.93E-02	4.85E-02	8.05E-02	6.57E-02
3.98E-01	6.09E-03	1.73E-02	1.83E-02	3.14E-02	4.56E-02	7.37E-02	1.06E-01	8.69E-02
3.16E-01	2.34E-02	3.45E-02	4.57E-02	6.90E-02	8.01E-02	1.07E-01	1.40E-01	1.10E-01
2.51E-01	5.28E-02	6.50E-02	1.10E-01	1.35E-01	1.28E-01	1.69E-01	1.76E-01	1.33E-01
1.99E-01	1.10E-01	1.47E-01	1.82E-01	1.98E-01	1.97E-01	2.22E-01	2.38E-01	1.74E-01
1.58E-01	2.25E-01	2.42E-01	2.81E-01	3.00E-01	2.88E-01	3.00E-01	3.62E-01	2.29E-01
1.26E-01	3.44E-01	3.70E-01	4.10E-01	4.31E-01	4.11E-01	4.48E-01	5.26E-01	3.56E-01
1.00E-01	5.32E-01	5.51E-01	5.85E-01	5.94E-01	5.81E-01	6.88E-01	7.54E-01	5.13E-01
7.94E-02	7.45E-01	7.77E-01	7.72E-01	7.93E-01	8.04E-01	9.07E-01	9.72E-01	7.37E-01
6.31E-02	9.83E-01	1.01E+00	1.01E+00	1.02E+00	1.06E+00	1.11E+00	1.19E+00	9.20E-01
5.01E-02	1.26E+00	1.27E+00	1.30E+00	1.28E+00	1.28E+00	1.30E+00	1.42E+00	1.15E+00
3.98E-02	1.56E+00	1.59E+00	1.58E+00	1.57E+00	1.50E+00	1.56E+00	1.67E+00	1.38E+00
3.16E-02	1.89E+00	1.90E+00	1.84E+00	1.80E+00	1.78E+00	1.83E+00	1.88E+00	1.58E+00
2.51E-02	2.19E+00	2.18E+00	2.11E+00	2.08E+00	2.09E+00	2.08E+00	2.06E+00	1.82E+00
1.99E-02	2.53E+00	2.51E+00	2.39E+00	2.38E+00	2.33E+00	2.30E+00	2.23E+00	2.04E+00
1.58E-02	2.84E+00	2.81E+00	2.69E+00	2.62E+00	2.57E+00	2.54E+00	2.39E+00	2.22E+00
1.26E-02	3.16E+00	3.12E+00	2.96E+00	2.81E+00	2.78E+00	2.72E+00	2.54E+00	2.42E+00
1.00E-02	3.51E+00	3.45E+00	3.20E+00	3.04E+00	2.98E+00	2.88E+00	2.66E+00	2.56E+00
7.94E-03	3.86E+00	3.75E+00	3.49E+00	3.27E+00	3.13E+00	3.06E+00	2.76E+00	2.67E+00
6.31E-03	4.17E+00	4.08E+00	3.73E+00	3.48E+00	3.30E+00	3.21E+00	2.86E+00	2.80E+00
5.01E-03	4.45E+00	4.34E+00	3.97E+00	3.66E+00	3.46E+00	3.37E+00	2.93E+00	2.87E+00
3.98E-03	4.70E+00	4.57E+00	4.16E+00	3.86E+00	3.62E+00	3.48E+00	3.04E+00	2.96E+00
3.16E-03	4.98E+00	4.81E+00	4.36E+00	4.06E+00	3.78E+00	3.59E+00	3.12E+00	3.04E+00
2.51E-03	5.24E+00	5.00E+00	4.55E+00	4.23E+00	3.91E+00	3.67E+00	3.18E+00	3.09E+00
2.00E-03	5.45E+00	5.21E+00	4.70E+00	4.34E+00	4.04E+00	3.74E+00	3.23E+00	3.12E+00
1.58E-03	5.67E+00	5.39E+00	4.82E+00	4.45E+00	4.12E+00	3.82E+00	3.26E+00	3.13E+00
1.26E-03	5.86E+00	5.52E+00	4.96E+00	4.57E+00	4.18E+00	3.91E+00	3.28E+00	3.14E+00
1.00E-03	6.03E+00	5.66E+00	5.08E+00	4.67E+00	4.24E+00	3.94E+00	3.29E+00	3.16E+00
7.94E-04	6.14E+00	5.80E+00	5.19E+00	4.75E+00	4.32E+00	3.99E+00	3.30E+00	3.16E+00
6.31E-04	6.28E+00	5.92E+00	5.28E+00	4.81E+00	4.35E+00	4.03E+00	3.30E+00	3.16E+00
5.01E-04	6.39E+00	5.99E+00	5.36E+00	4.90E+00	4.40E+00	4.05E+00	3.32E+00	3.19E+00
3.98E-04	6.49E+00	6.08E+00	5.43E+00	4.94E+00	4.42E+00	4.08E+00	3.33E+00	3.19E+00
3.16E-04	6.58E+00	6.18E+00	5.51E+00	5.01E+00	4.44E+00	4.09E+00	3.33E+00	3.19E+00
2.51E-04	6.65E+00	6.23E+00	5.55E+00	5.04E+00	4.47E+00	4.10E+00	3.33E+00	3.19E+00
2.00E-04	6.71E+00	6.28E+00	5.59E+00	5.07E+00	4.49E+00	4.11E+00	3.33E+00	3.21E+00
1.58E-04	6.77E+00	6.32E+00	5.62E+00	5.09E+00	4.51E+00	4.12E+00	3.35E+00	3.21E+00
1.26E-04	6.81E+00	6.35E+00	5.63E+00	5.13E+00	4.52E+00	4.12E+00	3.35E+00	3.21E+00
1.00E-04	6.85E+00	6.36E+00	5.65E+00	5.13E+00	4.52E+00	4.12E+00	3.36E+00	3.21E+00
7.94E-05	6.85E+00	6.38E+00	5.66E+00	5.14E+00	4.52E+00	4.12E+00	3.37E+00	3.21E+00
6.31E-05	6.86E+00	6.38E+00	5.66E+00	5.14E+00	4.52E+00	4.14E+00	3.37E+00	3.21E+00
5.01E-05	6.87E+00	6.38E+00	5.67E+00	5.14E+00	4.52E+00	4.16E+00	3.37E+00	3.21E+00
3.98E-05	6.87E+00	6.39E+00	5.67E+00	5.14E+00	4.54E+00	4.16E+00	3.37E+00	3.21E+00
3.16E-05	6.87E+00	6.39E+00	5.67E+00	5.15E+00	4.55E+00	4.18E+00	3.37E+00	3.21E+00
2.51E-05	6.87E+00	6.39E+00	5.68E+00	5.17E+00	4.55E+00	4.18E+00	3.37E+00	3.21E+00
2.00E-05	6.87E+00	6.40E+00	5.70E+00	5.17E+00	4.55E+00	4.18E+00	3.37E+00	3.21E+00
1.58E-05	6.90E+00	6.42E+00	5.70E+00	5.17E+00	4.55E+00	4.18E+00	3.37E+00	3.21E+00
1.26E-05	6.91E+00	6.42E+00	5.70E+00	5.17E+00	4.55E+00	4.18E+00	3.37E+00	3.21E+00
1.00E-05	6.91E+00	6.42E+00	5.70E+00	5.17E+00	4.55E+00	4.18E+00	3.37E+00	3.21E+00
7.94E-06	6.91E+00	6.42E+00	5.70E+00	5.17E+00	4.55E+00	4.18E+00	3.37E+00	3.21E+00
OPERATION TIME (MIN)	196906	196946	197010	197146	197372	198090	198720	197830

TABLE 38. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 2-GAGE
(2.9-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.58E+00	1.01E-03	0.00E+00	4.48E-03	0.00E+00	0.00E+00	0.00E+00
1.26E+00	7.05E-03	0.00E+00	8.96E-03	0.00E+00	2.24E-02	0.00E+00
1.00E+00	2.11E-02	0.00E+00	1.34E-02	1.39E-02	6.72E-02	0.00E+00
7.94E-01	3.22E-02	0.00E+00	3.58E-02	1.39E-02	8.96E-02	8.68E-03
6.31E-01	6.14E-02	4.63E-03	7.17E-02	3.24E-02	1.48E-01	3.47E-02
5.01E-01	9.26E-02	1.85E-02	1.12E-01	5.09E-02	2.06E-01	5.21E-02
3.98E-01	1.24E-01	2.78E-02	1.57E-01	6.48E-02	2.69E-01	6.94E-02
3.16E-01	1.49E-01	5.09E-02	1.97E-01	6.48E-02	3.09E-01	8.68E-02
2.51E-01	1.90E-01	8.80E-02	2.24E-01	1.16E-01	3.67E-01	1.13E-01
1.99E-01	2.53E-01	1.57E-01	2.78E-01	1.57E-01	4.21E-01	2.34E-01
1.58E-01	3.32E-01	2.96E-01	3.14E-01	2.04E-01	4.61E-01	4.25E-01
1.26E-01	5.02E-01	6.76E-01	4.12E-01	2.96E-01	5.38E-01	6.68E-01
1.00E-01	6.89E-01	1.15E+00	5.15E-01	4.07E-01	5.78E-01	9.11E-01
7.94E-02	9.36E-01	1.59E+00	6.90E-01	7.50E-01	6.36E-01	1.12E+00
6.31E-02	1.17E+00	2.01E+00	8.60E-01	9.21E-01	7.35E-01	1.48E+00
5.01E-02	1.45E+00	2.56E+00	1.19E+00	1.17E+00	8.06E-01	1.68E+00
3.98E-02	1.74E+00	3.02E+00	1.39E+00	1.52E+00	9.05E-01	2.01E+00
3.16E-02	2.00E+00	3.45E+00	1.49E+00	1.82E+00	1.01E+00	2.53E+00
2.51E-02	2.23E+00	3.80E+00	1.64E+00	2.09E+00	1.19E+00	2.73E+00
1.99E-02	2.48E+00	4.33E+00	1.73E+00	2.39E+00	1.31E+00	2.92E+00
1.58E-02	2.66E+00	4.51E+00	1.78E+00	2.75E+00	1.42E+00	3.10E+00
1.26E-02	2.82E+00	4.90E+00	1.84E+00	2.95E+00	1.50E+00	3.14E+00
1.00E-02	2.94E+00	5.18E+00	1.90E+00	3.00E+00	1.58E+00	3.27E+00
7.94E-03	3.04E+00	5.41E+00	1.95E+00	3.08E+00	1.62E+00	3.39E+00
6.31E-03	3.11E+00	5.55E+00	1.96E+00	3.16E+00	1.67E+00	3.42E+00
5.01E-03	3.18E+00	5.78E+00	2.01E+00	3.17E+00	1.70E+00	3.46E+00
3.98E-03	3.25E+00	5.95E+00	2.02E+00	3.24E+00	1.73E+00	3.50E+00
3.16E-03	3.32E+00	6.16E+00	2.03E+00	3.27E+00	1.77E+00	3.55E+00
2.51E-03	3.36E+00	6.32E+00	2.04E+00	3.27E+00	1.80E+00	3.56E+00
2.00E-03	3.39E+00	6.43E+00	2.05E+00	3.27E+00	1.81E+00	3.56E+00
1.58E-03	3.39E+00	6.44E+00	2.06E+00	3.27E+00	1.81E+00	3.56E+00
1.26E-03	3.41E+00	6.51E+00	2.06E+00	3.28E+00	1.81E+00	3.56E+00
1.00E-03	3.42E+00	6.51E+00	2.06E+00	3.33E+00	1.81E+00	3.57E+00
7.94E-04	3.43E+00	6.52E+00	2.07E+00	3.33E+00	1.82E+00	3.57E+00
6.31E-04	3.43E+00	6.52E+00	2.07E+00	3.33E+00	1.82E+00	3.57E+00
5.01E-04	3.45E+00	6.59E+00	2.07E+00	3.34E+00	1.82E+00	3.57E+00
3.98E-04	3.45E+00	6.59E+00	2.07E+00	3.35E+00	1.82E+00	3.57E+00
3.16E-04	3.45E+00	6.59E+00	2.07E+00	3.35E+00	1.82E+00	3.57E+00
2.51E-04	3.45E+00	6.59E+00	2.07E+00	3.35E+00	1.82E+00	3.57E+00
2.00E-04	3.46E+00	6.59E+00	2.07E+00	3.35E+00	1.88E+00	3.57E+00
OPERATION TIME (MIN)	198720	43200	44640	43200	44640	23040

TABLE 39. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 4-GAGE
(8.8-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.99E+00	2.02E-03	0.00E+00	4.48E-03	0.00E+00	4.48E-03	0.00E+00
1.58E+00	8.07E-03	0.00E+00	8.96E-03	9.26E-03	1.79E-02	0.00E+00
1.26E+00	2.02E-02	0.00E+00	2.69E-02	9.26E-03	5.38E-02	0.00E+00
1.00E+00	4.64E-02	9.36E-03	2.69E-02	5.56E-02	1.16E-01	0.00E+00
7.94E-01	7.87E-02	9.36E-03	8.51E-02	8.80E-02	1.66E-01	8.68E-03
6.31E-01	1.24E-01	2.34E-02	1.25E-01	1.16E-01	2.73E-01	3.47E-02
5.01E-01	1.79E-01	4.68E-02	1.79E-01	1.67E-01	3.81E-01	5.21E-02
3.98E-01	2.24E-01	5.62E-02	2.37E-01	1.90E-01	4.84E-01	6.94E-02
3.16E-01	2.80E-01	1.12E-01	2.96E-01	2.22E-01	5.69E-01	1.13E-01
2.51E-01	3.47E-01	1.92E-01	3.49E-01	2.73E-01	6.63E-01	1.56E-01
1.99E-01	4.46E-01	3.00E-01	4.44E-01	3.24E-01	7.66E-01	3.30E-01
1.58E-01	5.91E-01	5.48E-01	5.33E-01	4.21E-01	8.56E-01	5.90E-01
1.26E-01	8.18E-01	9.92E-01	6.81E-01	5.74E-01	9.90E-01	8.85E-01
1.00E-01	1.09E+00	1.52E+00	1.00E+00	7.50E-01	1.07E+00	1.16E+00
7.94E-02	1.38E+00	2.00E+00	1.21E+00	1.05E+00	1.21E+00	1.53E+00
6.31E-02	1.72E+00	2.62E+00	1.49E+00	1.39E+00	1.38E+00	1.78E+00
5.01E-02	2.04E+00	3.17E+00	1.67E+00	1.82E+00	1.52E+00	2.07E+00
3.98E-02	2.37E+00	3.66E+00	1.95E+00	2.20E+00	1.70E+00	2.40E+00
3.16E-02	2.66E+00	4.01E+00	2.13E+00	2.59E+00	1.84E+00	2.91E+00
2.51E-02	2.96E+00	4.44E+00	2.40E+00	2.94E+00	2.01E+00	3.17E+00
1.99E-02	3.25E+00	4.90E+00	2.57E+00	3.32E+00	2.15E+00	3.49E+00
1.58E-02	3.47E+00	5.15E+00	2.69E+00	3.68E+00	2.29E+00	3.78E+00
1.26E-02	3.69E+00	5.61E+00	2.82E+00	3.89E+00	2.45E+00	3.81E+00
1.00E-02	3.85E+00	5.95E+00	2.92E+00	4.06E+00	2.59E+00	3.85E+00
7.94E-03	3.98E+00	6.18E+00	3.00E+00	4.15E+00	2.64E+00	4.04E+00
6.31E-03	4.04E+00	6.34E+00	3.00E+00	4.23E+00	2.70E+00	4.06E+00
5.01E-03	4.16E+00	6.51E+00	3.02E+00	4.48E+00	2.79E+00	4.08E+00
3.98E-03	4.24E+00	6.70E+00	3.03E+00	4.60E+00	2.81E+00	4.11E+00
3.16E-03	4.33E+00	6.91E+00	3.10E+00	4.64E+00	2.90E+00	4.11E+00
2.51E-03	4.46E+00	7.12E+00	3.11E+00	4.99E+00	2.93E+00	4.14E+00
2.00E-03	4.52E+00	7.34E+00	3.12E+00	4.99E+00	2.94E+00	4.14E+00
1.58E-03	4.52E+00	7.37E+00	3.13E+00	4.99E+00	2.94E+00	4.14E+00
1.26E-03	4.55E+00	7.47E+00	3.13E+00	5.01E+00	2.95E+00	4.15E+00
1.00E-03	4.57E+00	7.49E+00	3.15E+00	5.04E+00	2.97E+00	4.15E+00
7.94E-04	4.58E+00	7.50E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
6.31E-04	4.58E+00	7.50E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
5.01E-04	4.59E+00	7.57E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
3.98E-04	4.60E+00	7.58E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
3.16E-04	4.60E+00	7.58E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
2.51E-04	4.60E+00	7.58E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
2.00E-04	4.61E+00	7.60E+00	3.15E+00	5.04E+00	3.01E+00	4.15E+00

TABLE 40. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 6-GAGE
(14.9-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
2.51E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	4.48E-03	0.00E+00
1.99E+00	6.08E-03	0.00E+00	4.48E-03	0.00E+00	2.24E-02	0.00E+00
1.58E+00	1.82E-02	9.53E-03	8.96E-03	1.39E-02	4.93E-02	0.00E+00
1.26E+00	3.95E-02	1.43E-02	4.03E-02	1.85E-02	1.03E-01	0.00E+00
1.00E+00	7.80E-02	2.38E-02	4.93E-02	7.41E-02	2.02E-01	0.00E+00
7.94E-01	1.34E-01	3.34E-02	1.43E-01	1.16E-01	3.09E-01	8.68E-03
6.31E-01	1.92E-01	4.29E-02	1.97E-01	1.57E-01	4.35E-01	5.21E-02
5.01E-01	2.60E-01	5.24E-02	2.64E-01	2.18E-01	5.78E-01	9.55E-02
3.98E-01	3.34E-01	8.58E-02	3.72E-01	2.41E-01	7.21E-01	1.39E-01
3.16E-01	4.14E-01	1.29E-01	4.57E-01	2.96E-01	8.56E-01	2.17E-01
2.51E-01	5.15E-01	2.43E-01	5.60E-01	3.75E-01	9.81E-01	2.86E-01
1.99E-01	6.64E-01	4.43E-01	6.99E-01	4.63E-01	1.14E+00	4.51E-01
1.58E-01	8.65E-01	8.10E-01	8.15E-01	6.16E-01	1.27E+00	7.38E-01
1.26E-01	1.13E+00	1.25E+00	1.08E+00	7.59E-01	1.44E+00	1.06E+00
1.00E-01	1.47E+00	1.87E+00	1.45E+00	1.06E+00	1.56E+00	1.36E+00
7.94E-02	1.78E+00	2.34E+00	1.70E+00	1.38E+00	1.73E+00	1.77E+00
6.31E-02	2.18E+00	3.01E+00	2.13E+00	1.74E+00	1.90E+00	2.13E+00
5.01E-02	2.57E+00	3.56E+00	2.35E+00	2.37E+00	2.11E+00	2.44E+00
3.98E-02	2.92E+00	4.04E+00	2.72E+00	2.79E+00	2.28E+00	2.81E+00
3.16E-02	3.24E+00	4.43E+00	2.93E+00	3.26E+00	2.44E+00	3.17E+00
2.51E-02	3.54E+00	4.79E+00	3.20E+00	3.72E+00	2.58E+00	3.45E+00
1.99E-02	3.81E+00	5.17E+00	3.36E+00	4.18E+00	2.69E+00	3.69E+00
1.58E-02	4.03E+00	5.41E+00	3.50E+00	4.55E+00	2.80E+00	4.00E+00
1.26E-02	4.25E+00	5.81E+00	3.70E+00	4.79E+00	2.96E+00	4.00E+00
1.00E-02	4.43E+00	6.11E+00	3.80E+00	5.03E+00	3.06E+00	4.07E+00
7.94E-03	4.56E+00	6.43E+00	3.87E+00	5.11E+00	3.14E+00	4.24E+00
6.31E-03	4.66E+00	6.65E+00	3.91E+00	5.22E+00	3.19E+00	4.27E+00
5.01E-03	4.75E+00	6.79E+00	3.92E+00	5.41E+00	3.27E+00	4.28E+00
3.98E-03	4.85E+00	7.07E+00	3.93E+00	5.55E+00	3.29E+00	4.31E+00
3.16E-03	4.94E+00	7.28E+00	4.00E+00	5.59E+00	3.38E+00	4.31E+00
2.51E-03	5.06E+00	7.49E+00	4.00E+00	5.91E+00	3.40E+00	4.31E+00
2.00E-03	5.15E+00	7.88E+00	4.01E+00	5.91E+00	3.40E+00	4.31E+00
1.58E-03	5.16E+00	7.90E+00	4.01E+00	5.94E+00	3.40E+00	4.31E+00
1.26E-03	5.18E+00	8.01E+00	4.01E+00	5.94E+00	3.41E+00	4.31E+00
1.00E-03	5.21E+00	8.08E+00	4.04E+00	5.97E+00	3.41E+00	4.31E+00
7.94E-04	5.22E+00	8.11E+00	4.04E+00	5.97E+00	3.42E+00	4.31E+00
6.31E-04	5.22E+00	8.11E+00	4.04E+00	5.97E+00	3.42E+00	4.31E+00
5.01E-04	5.23E+00	8.16E+00	4.04E+00	5.97E+00	3.42E+00	4.31E+00
3.98E-04	5.25E+00	8.17E+00	4.04E+00	6.03E+00	3.43E+00	4.31E+00
3.16E-04	5.25E+00	8.17E+00	4.04E+00	6.03E+00	3.43E+00	4.31E+00
2.51E-04	5.25E+00	8.17E+00	4.04E+00	6.03E+00	3.43E+00	4.31E+00
2.00E-04	5.25E+00	8.21E+00	4.05E+00	6.03E+00	3.43E+00	4.31E+00
OPERATION TIME (MIN)	197492	41972	44640	43200	44640	23040

TABLE 41. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 8-GAGE
(21.1-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
3.16E+00	1.01E-03	0.00E+00	4.48E-03	0.00E+00	0.00E+00	0.00E+00
2.51E+00	4.05E-03	0.00E+00	8.96E-03	4.63E-03	4.48E-03	0.00E+00
1.99E+00	1.32E-02	0.00E+00	1.34E-02	1.85E-02	2.69E-02	0.00E+00
1.58E+00	2.84E-02	9.58E-03	1.79E-02	3.70E-02	6.27E-02	0.00E+00
1.26E+00	6.79E-02	1.44E-02	6.72E-02	7.41E-02	1.48E-01	0.00E+00
1.00E+00	1.23E-01	2.39E-02	7.62E-02	1.62E-01	2.87E-01	0.00E+00
7.94E-01	1.93E-01	3.35E-02	1.79E-01	2.27E-01	4.17E-01	8.68E-03
6.31E-01	2.71E-01	4.79E-02	2.51E-01	3.06E-01	5.78E-01	5.21E-02
5.01E-01	3.71E-01	8.62E-02	3.63E-01	3.80E-01	7.62E-01	1.30E-01
3.98E-01	4.65E-01	1.39E-01	4.88E-01	4.40E-01	9.09E-01	2.00E-01
3.16E-01	5.86E-01	2.25E-01	6.14E-01	5.23E-01	1.10E+00	3.12E-01
2.51E-01	7.12E-01	3.78E-01	7.35E-01	6.39E-01	1.23E+00	3.99E-01
1.99E-01	8.97E-01	6.70E-01	9.36E-01	7.27E-01	1.38E+00	6.16E-01
1.58E-01	1.14E+00	1.11E+00	1.13E+00	8.94E-01	1.51E+00	9.98E-01
1.26E-01	1.45E+00	1.57E+00	1.43E+00	1.12E+00	1.69E+00	1.41E+00
1.00E-01	1.84E+00	2.21E+00	1.82E+00	1.50E+00	1.85E+00	1.81E+00
7.94E-02	2.21E+00	2.73E+00	2.15E+00	1.94E+00	2.04E+00	2.21E+00
6.31E-02	2.64E+00	3.40E+00	2.56E+00	2.42E+00	2.24E+00	2.63E+00
5.01E-02	3.03E+00	3.96E+00	2.87E+00	2.98E+00	2.41E+00	2.96E+00
3.98E-02	3.41E+00	4.50E+00	3.28E+00	3.39E+00	2.58E+00	3.33E+00
3.16E-02	3.73E+00	4.96E+00	3.46E+00	3.88E+00	2.72E+00	3.70E+00
2.51E-02	4.06E+00	5.38E+00	3.76E+00	4.38E+00	2.87E+00	3.96E+00
1.99E-02	4.35E+00	5.86E+00	3.92E+00	4.83E+00	3.00E+00	4.16E+00
1.58E-02	4.62E+00	6.19E+00	4.12E+00	5.24E+00	3.11E+00	4.50E+00
1.26E-02	4.79E+00	6.52E+00	4.25E+00	5.41E+00	3.25E+00	4.57E+00
1.00E-02	4.97E+00	6.88E+00	4.33E+00	5.64E+00	3.34E+00	4.69E+00
7.94E-03	5.11E+00	7.27E+00	4.38E+00	5.74E+00	3.41E+00	4.71E+00
6.31E-03	5.21E+00	7.56E+00	4.39E+00	5.85E+00	3.45E+00	4.74E+00
5.01E-03	5.31E+00	7.74E+00	4.40E+00	6.03E+00	3.53E+00	4.76E+00
3.98E-03	5.42E+00	8.05E+00	4.41E+00	6.19E+00	3.56E+00	4.77E+00
3.16E-03	5.53E+00	8.35E+00	4.48E+00	6.24E+00	3.64E+00	4.77E+00
2.51E-03	5.64E+00	8.60E+00	4.49E+00	6.47E+00	3.67E+00	4.77E+00
2.00E-03	5.71E+00	8.87E+00	4.50E+00	6.48E+00	3.68E+00	4.77E+00
1.58E-03	5.72E+00	8.90E+00	4.51E+00	6.50E+00	3.68E+00	4.77E+00
1.26E-03	5.74E+00	9.00E+00	4.51E+00	6.51E+00	3.68E+00	4.78E+00
1.00E-03	5.77E+00	9.09E+00	4.53E+00	6.54E+00	3.68E+00	4.78E+00
7.94E-04	5.78E+00	9.10E+00	4.53E+00	6.54E+00	3.70E+00	4.78E+00
6.31E-04	5.78E+00	9.10E+00	4.53E+00	6.54E+00	3.70E+00	4.78E+00
5.01E-04	5.79E+00	9.15E+00	4.53E+00	6.54E+00	3.70E+00	4.79E+00
3.98E-04	5.81E+00	9.15E+00	4.54E+00	6.61E+00	3.71E+00	4.79E+00
3.16E-04	5.81E+00	9.15E+00	4.54E+00	6.61E+00	3.71E+00	4.79E+00
2.51E-04	5.81E+00	9.15E+00	4.54E+00	6.61E+00	3.71E+00	4.79E+00
2.00E-04	5.82E+00	9.19E+00	4.54E+00	6.61E+00	3.71E+00	4.79E+00
OPERATION TIME (MIN)	197292	41772	44640	43200	44640	23040

TABLE 42. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 10-GAGE
(26.8-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
3.16E+00	3.04E-03	0.00E+00	4.48E-03	0.00E+00	8.96E-03	0.00E+00
2.51E+00	7.10E-03	0.00E+00	8.96E-03	4.63E-03	1.79E-02	0.00E+00
1.99E+00	1.82E-02	0.00E+00	1.34E-02	2.31E-02	4.48E-02	0.00E+00
1.58E+00	4.06E-02	1.44E-02	2.24E-02	5.56E-02	8.51E-02	8.68E-03
1.26E+00	8.82E-02	2.39E-02	7.17E-02	1.16E-01	1.75E-01	1.74E-02
1.00E+00	1.48E-01	3.83E-02	8.51E-02	2.04E-01	3.27E-01	1.74E-02
7.94E-01	2.29E-01	5.75E-02	1.93E-01	2.82E-01	4.75E-01	3.47E-02
6.31E-01	3.32E-01	8.14E-02	2.87E-01	3.94E-01	6.77E-01	8.68E-02
5.01E-01	4.39E-01	1.29E-01	4.08E-01	4.68E-01	8.69E-01	1.74E-01
3.98E-01	5.49E-01	1.96E-01	5.38E-01	5.60E-01	1.04E+00	2.43E-01
3.16E-01	6.90E-01	2.92E-01	6.68E-01	6.67E-01	1.27E+00	3.73E-01
2.51E-01	8.46E-01	4.74E-01	8.15E-01	8.06E-01	1.44E+00	5.12E-01
1.99E-01	1.07E+00	8.05E-01	1.06E+00	9.44E-01	1.61E+00	7.47E-01
1.58E-01	1.36E+00	1.33E+00	1.26E+00	1.15E+00	1.77E+00	1.18E+00
1.26E-01	1.71E+00	1.81E+00	1.60E+00	1.44E+00	2.01E+00	1.64E+00
1.00E-01	2.14E+00	2.47E+00	2.01E+00	1.93E+00	2.19E+00	2.08E+00
7.94E-02	2.53E+00	3.02E+00	2.35E+00	2.39E+00	2.41E+00	2.49E+00
6.31E-02	3.02E+00	3.77E+00	2.86E+00	2.87E+00	2.64E+00	2.95E+00
5.01E-02	3.42E+00	4.42E+00	3.19E+00	3.40E+00	2.83E+00	3.19E+00
3.98E-02	3.80E+00	4.94E+00	3.56E+00	3.85E+00	3.00E+00	3.61E+00
3.16E-02	4.15E+00	5.37E+00	3.74E+00	4.50E+00	3.14E+00	4.03E+00
2.51E-02	4.44E+00	5.71E+00	4.05E+00	4.86E+00	3.30E+00	4.35E+00
1.99E-02	4.75E+00	6.22E+00	4.27E+00	5.26E+00	3.43E+00	4.64E+00
1.58E-02	5.02E+00	6.65E+00	4.44E+00	5.57E+00	3.55E+00	5.01E+00
1.26E-02	5.24E+00	7.08E+00	4.60E+00	5.74E+00	3.70E+00	5.19E+00
1.00E-02	5.42E+00	7.42E+00	4.73E+00	5.95E+00	3.79E+00	5.28E+00
7.94E-03	5.56E+00	7.87E+00	4.79E+00	6.01E+00	3.86E+00	5.33E+00
6.31E-03	5.67E+00	8.19E+00	4.83E+00	6.11E+00	3.89E+00	5.37E+00
5.01E-03	5.77E+00	8.38E+00	4.83E+00	6.30E+00	3.97E+00	5.39E+00
3.98E-03	5.89E+00	8.69E+00	4.85E+00	6.46E+00	4.01E+00	5.41E+00
3.16E-03	6.01E+00	9.00E+00	4.92E+00	6.51E+00	4.10E+00	5.45E+00
2.51E-03	6.13E+00	9.27E+00	4.93E+00	6.74E+00	4.13E+00	5.45E+00
2.00E-03	6.16E+00	9.41E+00	4.94E+00	6.75E+00	4.14E+00	5.47E+00
1.58E-03	6.18E+00	9.43E+00	4.96E+00	6.77E+00	4.14E+00	5.47E+00
1.26E-03	6.20E+00	9.52E+00	4.96E+00	6.78E+00	4.14E+00	5.49E+00
1.00E-03	6.23E+00	9.61E+00	4.98E+00	6.81E+00	4.14E+00	5.49E+00
7.94E-04	6.24E+00	9.61E+00	4.99E+00	6.81E+00	4.16E+00	5.49E+00
6.31E-04	6.24E+00	9.61E+00	4.99E+00	6.81E+00	4.16E+00	5.49E+00
5.01E-04	6.24E+00	9.62E+00	4.99E+00	6.82E+00	4.16E+00	5.49E+00
3.98E-04	6.28E+00	9.72E+00	4.99E+00	6.88E+00	4.16E+00	5.49E+00
3.16E-04	6.28E+00	9.72E+00	4.99E+00	6.88E+00	4.16E+00	5.49E+00
2.51E-04	6.28E+00	9.72E+00	4.99E+00	6.88E+00	4.16E+00	5.49E+00
2.00E-04	6.28E+00	9.73E+00	5.00E+00	6.88E+00	4.16E+00	5.49E+00
OPERATION TIME (MIN)	197284	41764	44640	43200	44640	23040

TABLE 43. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 12-GAGE
(32.5-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
3.16E+00	3.04E-03	0.00E+00	4.48E-03	0.00E+00	8.96E-03	0.00E+00
2.51E+00	7.10E-03	0.00E+00	8.96E-03	4.63E-03	1.79E-02	0.00E+00
1.99E+00	1.93E-02	0.00E+00	1.34E-02	2.78E-02	4.48E-02	0.00E+00
1.58E+00	4.57E-02	1.92E-02	2.24E-02	6.94E-02	8.96E-02	8.68E-03
1.26E+00	9.84E-02	3.85E-02	8.06E-02	1.34E-01	1.79E-01	1.74E-02
1.00E+00	1.69E-01	6.73E-02	9.86E-02	2.36E-01	3.49E-01	1.74E-02
7.94E-01	2.65E-01	9.62E-02	2.24E-01	3.38E-01	5.06E-01	4.34E-02
6.31E-01	3.83E-01	1.39E-01	3.23E-01	4.54E-01	7.48E-01	9.55E-02
5.01E-01	5.07E-01	2.02E-01	4.66E-01	5.46E-01	9.59E-01	1.91E-01
3.98E-01	6.34E-01	2.84E-01	6.09E-01	6.34E-01	1.17E+00	2.69E-01
3.16E-01	7.85E-01	3.99E-01	7.48E-01	7.22E-01	1.43E+00	4.17E-01
2.51E-01	9.63E-01	5.96E-01	9.23E-01	8.75E-01	1.62E+00	5.90E-01
1.99E-01	1.22E+00	9.81E-01	1.21E+00	1.02E+00	1.84E+00	8.42E-01
1.58E-01	1.54E+00	1.48E+00	1.49E+00	1.26E+00	2.04E+00	1.28E+00
1.26E-01	1.92E+00	2.02E+00	1.85E+00	1.59E+00	2.31E+00	1.70E+00
1.00E-01	2.38E+00	2.73E+00	2.30E+00	2.09E+00	2.50E+00	2.19E+00
7.94E-02	2.81E+00	3.37E+00	2.67E+00	2.61E+00	2.75E+00	2.59E+00
6.31E-02	3.31E+00	4.15E+00	3.18E+00	3.08E+00	3.01E+00	3.07E+00
5.01E-02	3.74E+00	4.81E+00	3.52E+00	3.66E+00	3.23E+00	3.40E+00
3.98E-02	4.16E+00	5.39E+00	3.93E+00	4.14E+00	3.43E+00	3.80E+00
3.16E-02	4.54E+00	5.87E+00	4.15E+00	4.80E+00	3.58E+00	4.28E+00
2.51E-02	4.87E+00	6.26E+00	4.47E+00	5.20E+00	3.74E+00	4.69E+00
1.99E-02	5.19E+00	6.85E+00	4.66E+00	5.59E+00	3.92E+00	4.98E+00
1.58E-02	5.49E+00	7.33E+00	4.83E+00	5.92E+00	4.06E+00	5.43E+00
1.26E-02	5.74E+00	7.78E+00	5.00E+00	6.12E+00	4.26E+00	5.63E+00
1.00E-02	5.95E+00	8.20E+00	5.14E+00	6.38E+00	4.34E+00	5.80E+00
7.94E-03	6.12E+00	8.68E+00	5.20E+00	6.47E+00	4.43E+00	5.86E+00
6.31E-03	6.23E+00	9.02E+00	5.26E+00	6.57E+00	4.46E+00	5.89E+00
5.01E-03	6.35E+00	9.25E+00	5.27E+00	6.75E+00	4.57E+00	5.93E+00
3.98E-03	6.48E+00	9.56E+00	5.32E+00	6.91E+00	4.63E+00	5.96E+00
3.16E-03	6.59E+00	9.86E+00	5.38E+00	6.96E+00	4.71E+00	6.00E+00
2.51E-03	6.69E+00	1.01E+01	5.39E+00	7.16E+00	4.74E+00	6.01E+00
2.00E-03	6.76E+00	1.03E+01	5.42E+00	7.20E+00	4.75E+00	6.05E+00
1.58E-03	6.78E+00	1.03E+01	5.43E+00	7.22E+00	4.75E+00	6.05E+00
1.26E-03	6.80E+00	1.04E+01	5.44E+00	7.23E+00	4.75E+00	6.07E+00
1.00E-03	6.86E+00	1.06E+01	5.46E+00	7.25E+00	4.75E+00	6.08E+00
7.94E-04	6.86E+00	1.06E+01	5.48E+00	7.26E+00	4.76E+00	6.08E+00
6.31E-04	6.86E+00	1.06E+01	5.48E+00	7.26E+00	4.76E+00	6.08E+00
5.01E-04	6.86E+00	1.06E+01	5.48E+00	7.26E+00	4.76E+00	6.09E+00
3.98E-04	6.89E+00	1.07E+01	5.48E+00	7.33E+00	4.76E+00	6.09E+00
3.16E-04	6.89E+00	1.07E+01	5.48E+00	7.33E+00	4.76E+00	6.09E+00
2.51E-04	6.89E+00	1.07E+01	5.48E+00	7.33E+00	4.76E+00	6.09E+00
2.00E-04	6.89E+00	1.07E+01	5.49E+00	7.33E+00	4.76E+00	6.09E+00
OPERATION TIME (MIN)	197118	41598	44640	43200	44640	23040

TABLE 44. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 14-GAGE
(38.7-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN: THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
3.16E+00	3.05E-03	0.00E+00	4.48E-03	0.00E+00	8.96E-03	0.00E+00
2.51E+00	8.13E-03	0.00E+00	8.96E-03	9.26E-03	1.79E-02	0.00E+00
1.99E+00	2.54E-02	4.85E-03	1.34E-02	3.24E-02	6.27E-02	0.00E+00
1.58E+00	5.79E-02	3.39E-02	2.69E-02	8.33E-02	1.12E-01	8.68E-03
1.26E+00	1.20E-01	6.79E-02	8.96E-02	1.48E-01	2.24E-01	1.74E-02
1.00E+00	2.09E-01	1.16E-01	1.21E-01	2.50E-01	4.39E-01	2.60E-02
7.94E-01	3.35E-01	1.70E-01	2.73E-01	3.61E-01	6.63E-01	6.94E-02
6.31E-01	4.71E-01	2.38E-01	3.99E-01	4.95E-01	9.14E-01	1.22E-01
5.01E-01	6.12E-01	3.15E-01	5.82E-01	5.97E-01	1.15E+00	1.91E-01
3.98E-01	7.56E-01	3.98E-01	7.62E-01	6.94E-01	1.39E+00	2.69E-01
3.16E-01	9.46E-01	5.63E-01	9.86E-01	7.92E-01	1.68E+00	4.17E-01
2.51E-01	1.14E+00	7.42E-01	1.20E+00	9.77E-01	1.91E+00	5.90E-01
1.99E-01	1.42E+00	1.13E+00	1.51E+00	1.14E+00	2.14E+00	8.85E-01
1.58E-01	1.75E+00	1.62E+00	1.81E+00	1.40E+00	2.36E+00	1.34E+00
1.26E-01	2.18E+00	2.23E+00	2.19E+00	1.83E+00	2.65E+00	1.80E+00
1.00E-01	2.66E+00	3.02E+00	2.59E+00	2.33E+00	2.88E+00	2.37E+00
7.94E-02	3.13E+00	3.68E+00	3.03E+00	2.87E+00	3.15E+00	2.79E+00
6.31E-02	3.62E+00	4.47E+00	3.55E+00	3.30E+00	3.41E+00	3.29E+00
5.01E-02	4.09E+00	5.13E+00	3.97E+00	3.91E+00	3.62E+00	3.68E+00
3.98E-02	4.53E+00	5.82E+00	4.36E+00	4.44E+00	3.82E+00	4.07E+00
3.16E-02	4.94E+00	6.29E+00	4.67E+00	5.09E+00	4.00E+00	4.57E+00
2.51E-02	5.33E+00	6.80E+00	5.00E+00	5.60E+00	4.18E+00	5.03E+00
1.99E-02	5.65E+00	7.38E+00	5.17E+00	6.04E+00	4.34E+00	5.29E+00
1.58E-02	5.98E+00	7.96E+00	5.38E+00	6.37E+00	4.49E+00	5.74E+00
1.26E-02	6.27E+00	8.55E+00	5.58E+00	6.60E+00	4.68E+00	5.97E+00
1.00E-02	6.51E+00	9.10E+00	5.73E+00	6.84E+00	4.76E+00	6.18E+00
7.94E-03	6.66E+00	9.44E+00	5.81E+00	6.94E+00	4.82E+00	6.41E+00
6.31E-03	6.78E+00	9.78E+00	5.88E+00	7.03E+00	4.85E+00	6.45E+00
5.01E-03	6.90E+00	1.00E+01	5.89E+00	7.19E+00	4.92E+00	6.53E+00
3.98E-03	7.01E+00	1.04E+01	5.93E+00	7.29E+00	4.95E+00	6.55E+00
3.16E-03	7.09E+00	1.06E+01	5.99E+00	7.32E+00	5.04E+00	6.60E+00
2.51E-03	7.20E+00	1.08E+01	6.01E+00	7.51E+00	5.06E+00	6.60E+00
2.00E-03	7.26E+00	1.10E+01	6.08E+00	7.52E+00	5.08E+00	6.65E+00
1.58E-03	7.29E+00	1.11E+01	6.09E+00	7.54E+00	5.08E+00	6.68E+00
1.26E-03	7.31E+00	1.11E+01	6.09E+00	7.55E+00	5.08E+00	6.70E+00
1.00E-03	7.37E+00	1.14E+01	6.12E+00	7.57E+00	5.09E+00	6.71E+00
7.94E-04	7.38E+00	1.14E+01	6.13E+00	7.58E+00	5.09E+00	6.71E+00
6.31E-04	7.38E+00	1.14E+01	6.13E+00	7.58E+00	5.09E+00	6.71E+00
5.01E-04	7.38E+00	1.14E+01	6.13E+00	7.58E+00	5.09E+00	6.72E+00
3.98E-04	7.40E+00	1.14E+01	6.14E+00	7.65E+00	5.09E+00	6.72E+00
3.16E-04	7.40E+00	1.14E+01	6.14E+00	7.65E+00	5.09E+00	6.72E+00
2.51E-04	7.40E+00	1.14E+01	6.14E+00	7.65E+00	5.09E+00	6.72E+00
2.00E-04	7.41E+00	1.14E+01	6.15E+00	7.65E+00	5.09E+00	6.74E+00
OPERATION TIME (MIN)	196760	41240	44640	43200	44640	23040

TABLE 45. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 2-GAGE
(3.4-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.58E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00	8.96E-03	0.00E+00
1.26E+00	7.05E-03	0.00E+00	0.00E+00	0.00E+00	3.14E-02	0.00E+00
1.00E+00	1.81E-02	0.00E+00	8.96E-03	0.00E+00	6.72E-02	8.68E-03
7.94E-01	3.82E-02	0.00E+00	3.58E-02	4.63E-03	1.12E-01	3.47E-02
6.31E-01	6.74E-02	9.26E-03	6.27E-02	9.26E-03	1.84E-01	6.94E-02
5.01E-01	1.01E-01	2.31E-02	1.08E-01	3.24E-02	2.28E-01	1.13E-01
3.98E-01	1.26E-01	3.24E-02	1.57E-01	5.09E-02	2.55E-01	1.30E-01
3.16E-01	1.53E-01	4.63E-02	1.93E-01	5.56E-02	3.18E-01	1.39E-01
2.51E-01	2.06E-01	9.26E-02	2.42E-01	1.06E-01	3.94E-01	1.74E-01
1.99E-01	2.67E-01	1.76E-01	2.96E-01	1.39E-01	4.57E-01	2.52E-01
1.58E-01	3.37E-01	2.73E-01	3.45E-01	1.67E-01	5.20E-01	4.08E-01
1.26E-01	4.92E-01	6.02E-01	4.26E-01	2.73E-01	5.87E-01	6.42E-01
1.00E-01	7.19E-01	1.06E+00	5.96E-01	4.40E-01	6.63E-01	9.46E-01
7.94E-02	9.83E-01	1.45E+00	8.02E-01	8.66E-01	7.26E-01	1.18E+00
6.31E-02	1.19E+00	1.88E+00	9.86E-01	1.02E+00	7.89E-01	1.36E+00
5.01E-02	1.45E+00	2.39E+00	1.16E+00	1.27E+00	8.74E-01	1.65E+00
3.98E-02	1.67E+00	2.74E+00	1.28E+00	1.51E+00	9.90E-01	2.03E+00
3.16E-02	1.91E+00	3.09E+00	1.43E+00	1.83E+00	1.11E+00	2.35E+00
2.51E-02	2.14E+00	3.57E+00	1.55E+00	2.07E+00	1.20E+00	2.58E+00
1.99E-02	2.29E+00	3.95E+00	1.57E+00	2.27E+00	1.27E+00	2.61E+00
1.58E-02	2.47E+00	4.25E+00	1.65E+00	2.54E+00	1.31E+00	2.83E+00
1.26E-02	2.65E+00	4.79E+00	1.68E+00	2.70E+00	1.37E+00	2.90E+00
1.00E-02	2.80E+00	5.15E+00	1.77E+00	2.82E+00	1.42E+00	2.99E+00
7.94E-03	2.87E+00	5.32E+00	1.80E+00	2.91E+00	1.44E+00	3.06E+00
6.31E-03	2.97E+00	5.55E+00	1.81E+00	3.06E+00	1.49E+00	3.06E+00
5.01E-03	3.04E+00	5.74E+00	1.86E+00	3.09E+00	1.53E+00	3.09E+00
3.98E-03	3.12E+00	6.03E+00	1.87E+00	3.14E+00	1.54E+00	3.09E+00
3.16E-03	3.19E+00	6.27E+00	1.88E+00	3.16E+00	1.55E+00	3.16E+00
2.51E-03	3.24E+00	6.50E+00	1.88E+00	3.16E+00	1.56E+00	3.16E+00
2.00E-03	3.26E+00	6.62E+00	1.88E+00	3.16E+00	1.56E+00	3.17E+00
1.58E-03	3.27E+00	6.63E+00	1.89E+00	3.16E+00	1.56E+00	3.17E+00
1.26E-03	3.29E+00	6.70E+00	1.89E+00	3.16E+00	1.56E+00	3.17E+00
1.00E-03	3.30E+00	6.72E+00	1.90E+00	3.21E+00	1.56E+00	3.19E+00
7.94E-04	3.31E+00	6.75E+00	1.90E+00	3.21E+00	1.56E+00	3.19E+00
6.31E-04	3.31E+00	6.75E+00	1.90E+00	3.21E+00	1.56E+00	3.19E+00
5.01E-04	3.33E+00	6.81E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
3.98E-04	3.33E+00	6.83E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
3.16E-04	3.33E+00	6.83E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
2.51E-04	3.33E+00	6.83E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
2.00E-04	3.37E+00	6.90E+00	1.90E+00	3.23E+00	1.65E+00	3.19E+00
OPERATION TIME (MIN)	198720	43200	44640	43200	44640	23040

TABLE 46. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 4-GAGE
(9.3-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.58E+00	5.05E-03	0.00E+00	8.96E-03	0.00E+00	1.34E-02	0.00E+00
1.26E+00	1.51E-02	0.00E+00	2.24E-02	4.63E-03	4.03E-02	0.00E+00
1.00E+00	3.84E-02	4.70E-03	6.27E-02	9.26E-03	8.96E-02	8.68E-03
7.94E-01	7.67E-02	1.41E-02	1.21E-01	1.39E-02	1.70E-01	4.34E-02
6.31E-01	1.19E-01	4.70E-02	1.66E-01	2.31E-02	2.51E-01	8.68E-02
5.01E-01	1.71E-01	8.46E-02	2.28E-01	5.09E-02	3.23E-01	1.48E-01
3.98E-01	2.26E-01	1.17E-01	3.09E-01	7.87E-02	3.81E-01	2.43E-01
3.16E-01	2.92E-01	1.93E-01	3.81E-01	1.02E-01	4.70E-01	3.12E-01
2.51E-01	3.85E-01	2.91E-01	4.70E-01	1.67E-01	5.78E-01	4.25E-01
1.99E-01	4.80E-01	4.28E-01	5.51E-01	2.27E-01	6.54E-01	5.73E-01
1.58E-01	6.17E-01	6.34E-01	6.68E-01	3.01E-01	7.30E-01	8.59E-01
1.26E-01	8.50E-01	1.15E+00	7.62E-01	4.63E-01	8.33E-01	1.23E+00
1.00E-01	1.12E+00	1.65E+00	9.86E-01	7.36E-01	9.36E-01	1.51E+00
7.94E-02	1.42E+00	2.13E+00	1.21E+00	1.18E+00	1.02E+00	1.77E+00
6.31E-02	1.69E+00	2.67E+00	1.48E+00	1.41E+00	1.13E+00	1.93E+00
5.01E-02	2.00E+00	3.23E+00	1.60E+00	1.84E+00	1.25E+00	2.23E+00
3.98E-02	2.28E+00	3.61E+00	1.81E+00	2.18E+00	1.44E+00	2.57E+00
3.16E-02	2.59E+00	4.10E+00	1.99E+00	2.56E+00	1.59E+00	2.98E+00
2.51E-02	2.84E+00	4.59E+00	2.16E+00	2.87E+00	1.68E+00	3.16E+00
1.99E-02	3.01E+00	4.93E+00	2.21E+00	3.05E+00	1.80E+00	3.26E+00
1.58E-02	3.21E+00	5.37E+00	2.26E+00	3.26E+00	1.89E+00	3.49E+00
1.26E-02	3.42E+00	5.98E+00	2.31E+00	3.47E+00	1.97E+00	3.56E+00
1.00E-02	3.57E+00	6.30E+00	2.40E+00	3.61E+00	2.00E+00	3.72E+00
7.94E-03	3.67E+00	6.54E+00	2.43E+00	3.73E+00	2.04E+00	3.78E+00
6.31E-03	3.74E+00	6.66E+00	2.45E+00	3.87E+00	2.07E+00	3.83E+00
5.01E-03	3.82E+00	6.93E+00	2.51E+00	3.88E+00	2.09E+00	3.87E+00
3.98E-03	3.90E+00	7.21E+00	2.52E+00	3.94E+00	2.11E+00	3.88E+00
3.16E-03	3.95E+00	7.42E+00	2.53E+00	3.94E+00	2.12E+00	3.88E+00
2.51E-03	4.01E+00	7.63E+00	2.53E+00	3.95E+00	2.15E+00	3.88E+00
2.00E-03	4.04E+00	7.79E+00	2.53E+00	3.95E+00	2.15E+00	3.88E+00
1.58E-03	4.06E+00	7.81E+00	2.54E+00	3.98E+00	2.16E+00	3.88E+00
1.26E-03	4.07E+00	7.88E+00	2.54E+00	3.99E+00	2.16E+00	3.88E+00
1.00E-03	4.10E+00	7.90E+00	2.54E+00	4.07E+00	2.18E+00	3.88E+00
7.94E-04	4.10E+00	7.91E+00	2.54E+00	4.07E+00	2.18E+00	3.89E+00
6.31E-04	4.10E+00	7.91E+00	2.54E+00	4.07E+00	2.18E+00	3.89E+00
5.01E-04	4.12E+00	7.96E+00	2.54E+00	4.07E+00	2.18E+00	3.89E+00
3.98E-04	4.12E+00	7.98E+00	2.55E+00	4.08E+00	2.18E+00	3.89E+00
3.16E-04	4.12E+00	7.98E+00	2.55E+00	4.08E+00	2.18E+00	3.89E+00
2.51E-04	4.12E+00	7.98E+00	2.55E+00	4.08E+00	2.18E+00	3.89E+00
2.00E-04	4.18E+00	8.13E+00	2.55E+00	4.09E+00	2.27E+00	3.89E+00
OPERATION TIME (MIN)	198090	42570	44640	43200	44640	23040

TABLE 47. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 6-GAGE
(15.0-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.58E+00	1.01E-02	1.43E-02	8.96E-03	0.00E+00	2.24E-02	0.00E+00
1.26E+00	2.63E-02	2.39E-02	3.14E-02	4.63E-03	5.82E-02	0.00E+00
1.00E+00	6.59E-02	6.21E-02	9.41E-02	1.85E-02	1.16E-01	8.68E-03
7.94E-01	1.28E-01	1.00E-01	1.84E-01	2.78E-02	2.37E-01	4.34E-02
6.31E-01	1.93E-01	1.43E-01	2.64E-01	4.17E-02	3.58E-01	1.04E-01
5.01E-01	2.58E-01	1.91E-01	3.23E-01	7.87E-02	4.66E-01	1.91E-01
3.98E-01	3.31E-01	2.29E-01	4.30E-01	1.16E-01	5.42E-01	3.21E-01
3.16E-01	4.25E-01	3.30E-01	5.15E-01	1.48E-01	6.72E-01	4.60E-01
2.51E-01	5.43E-01	4.68E-01	6.41E-01	2.18E-01	7.89E-01	6.25E-01
1.99E-01	6.74E-01	6.59E-01	7.66E-01	3.01E-01	8.96E-01	7.90E-01
1.58E-01	8.67E-01	9.65E-01	9.18E-01	4.35E-01	9.95E-01	1.15E+00
1.26E-01	1.13E+00	1.46E+00	1.08E+00	6.39E-01	1.10E+00	1.57E+00
1.00E-01	1.44E+00	1.98E+00	1.38E+00	9.72E-01	1.23E+00	1.87E+00
7.94E-02	1.76E+00	2.44E+00	1.64E+00	1.49E+00	1.32E+00	2.11E+00
6.31E-02	2.08E+00	3.04E+00	1.97E+00	1.85E+00	1.43E+00	2.25E+00
5.01E-02	2.39E+00	3.43E+00	2.18E+00	2.36E+00	1.56E+00	2.60E+00
3.98E-02	2.68E+00	3.85E+00	2.34E+00	2.65E+00	1.73E+00	3.10E+00
3.16E-02	2.99E+00	4.29E+00	2.54E+00	3.07E+00	1.89E+00	3.47E+00
2.51E-02	3.23E+00	4.65E+00	2.73E+00	3.43E+00	2.00E+00	3.65E+00
1.99E-02	3.42E+00	5.02E+00	2.79E+00	3.62E+00	2.14E+00	3.86E+00
1.58E-02	3.63E+00	5.41E+00	2.90E+00	3.88E+00	2.26E+00	4.02E+00
1.26E-02	3.87E+00	6.07E+00	2.97E+00	4.08E+00	2.37E+00	4.09E+00
1.00E-02	4.02E+00	6.49E+00	3.04E+00	4.17E+00	2.45E+00	4.21E+00
7.94E-03	4.10E+00	6.65E+00	3.06E+00	4.26E+00	2.50E+00	4.25E+00
6.31E-03	4.18E+00	6.88E+00	3.07E+00	4.35E+00	2.53E+00	4.31E+00
5.01E-03	4.25E+00	7.10E+00	3.11E+00	4.36E+00	2.55E+00	4.35E+00
3.98E-03	4.32E+00	7.34E+00	3.12E+00	4.41E+00	2.57E+00	4.36E+00
3.16E-03	4.37E+00	7.51E+00	3.14E+00	4.43E+00	2.59E+00	4.36E+00
2.51E-03	4.41E+00	7.66E+00	3.15E+00	4.44E+00	2.61E+00	4.36E+00
2.00E-03	4.43E+00	7.77E+00	3.15E+00	4.44E+00	2.62E+00	4.37E+00
1.58E-03	4.44E+00	7.79E+00	3.16E+00	4.45E+00	2.62E+00	4.37E+00
1.26E-03	4.46E+00	7.86E+00	3.16E+00	4.45E+00	2.63E+00	4.37E+00
1.00E-03	4.51E+00	8.00E+00	3.17E+00	4.53E+00	2.64E+00	4.37E+00
7.94E-04	4.52E+00	8.00E+00	3.17E+00	4.53E+00	2.64E+00	4.37E+00
6.31E-04	4.52E+00	8.00E+00	3.17E+00	4.53E+00	2.64E+00	4.37E+00
5.01E-04	4.52E+00	8.00E+00	3.17E+00	4.54E+00	2.64E+00	4.37E+00
3.98E-04	4.52E+00	8.01E+00	3.17E+00	4.55E+00	2.65E+00	4.38E+00
3.16E-04	4.52E+00	8.01E+00	3.17E+00	4.55E+00	2.65E+00	4.38E+00
2.51E-04	4.52E+00	8.01E+00	3.17E+00	4.55E+00	2.65E+00	4.38E+00
2.00E-04	4.55E+00	8.06E+00	3.18E+00	4.56E+00	2.73E+00	4.38E+00
OPERATION TIME (MIN)	197372	41852	44640	43200	44640	23040

TABLE 48. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 8-GAGE
(21.0-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.99E+00	1.01E-03	0.00E+00	0.00E+00	0.00E+00	4.48E-03	0.00E+00
1.58E+00	1.42E-02	1.92E-02	8.96E-03	0.00E+00	3.58E-02	0.00E+00
1.26E+00	4.77E-02	4.80E-02	5.82E-02	1.85E-02	8.96E-02	0.00E+00
1.00E+00	1.01E-01	9.61E-02	1.34E-01	6.48E-02	1.57E-01	8.68E-03
7.94E-01	1.77E-01	1.49E-01	2.51E-01	8.80E-02	2.82E-01	4.34E-02
6.31E-01	2.62E-01	2.26E-01	3.45E-01	1.30E-01	4.17E-01	1.13E-01
5.01E-01	3.48E-01	3.12E-01	4.08E-01	2.13E-01	5.29E-01	2.00E-01
3.98E-01	4.49E-01	3.75E-01	5.51E-01	2.78E-01	6.09E-01	3.99E-01
3.16E-01	5.55E-01	4.95E-01	6.45E-01	3.24E-01	7.39E-01	5.64E-01
2.51E-01	7.01E-01	6.73E-01	8.02E-01	3.98E-01	8.69E-01	7.99E-01
1.99E-01	8.72E-01	9.61E-01	9.68E-01	4.77E-01	9.81E-01	1.06E+00
1.58E-01	1.12E+00	1.39E+00	1.15E+00	6.44E-01	1.10E+00	1.48E+00
1.26E-01	1.40E+00	1.89E+00	1.36E+00	8.94E-01	1.22E+00	1.91E+00
1.00E-01	1.72E+00	2.38E+00	1.68E+00	1.24E+00	1.37E+00	2.18E+00
7.94E-02	2.08E+00	2.90E+00	1.97E+00	1.79E+00	1.49E+00	2.47E+00
6.31E-02	2.41E+00	3.42E+00	2.33E+00	2.14E+00	1.62E+00	2.75E+00
5.01E-02	2.74E+00	3.86E+00	2.58E+00	2.65E+00	1.76E+00	3.11E+00
3.98E-02	3.04E+00	4.28E+00	2.78E+00	2.99E+00	1.93E+00	3.58E+00
3.16E-02	3.37E+00	4.70E+00	2.97E+00	3.42E+00	2.11E+00	4.04E+00
2.51E-02	3.65E+00	5.18E+00	3.20E+00	3.80E+00	2.22E+00	4.29E+00
1.99E-02	3.89E+00	5.65E+00	3.29E+00	4.01E+00	2.39E+00	4.57E+00
1.58E-02	4.11E+00	6.11E+00	3.36E+00	4.27E+00	2.50E+00	4.81E+00
1.26E-02	4.36E+00	6.78E+00	3.43E+00	4.48E+00	2.65E+00	4.90E+00
1.00E-02	4.53E+00	7.26E+00	3.49E+00	4.56E+00	2.75E+00	4.98E+00
7.94E-03	4.61E+00	7.41E+00	3.51E+00	4.69E+00	2.80E+00	5.02E+00
6.31E-03	4.69E+00	7.60E+00	3.55E+00	4.80E+00	2.83E+00	5.07E+00
5.01E-03	4.79E+00	7.91E+00	3.59E+00	4.84E+00	2.84E+00	5.11E+00
3.98E-03	4.87E+00	8.16E+00	3.60E+00	4.91E+00	2.89E+00	5.12E+00
3.16E-03	4.92E+00	8.32E+00	3.62E+00	4.92E+00	2.94E+00	5.13E+00
2.51E-03	4.97E+00	8.49E+00	3.64E+00	4.96E+00	2.94E+00	5.13E+00
2.00E-03	5.04E+00	8.79E+00	3.65E+00	4.99E+00	2.95E+00	5.14E+00
1.58E-03	5.05E+00	8.81E+00	3.66E+00	5.00E+00	2.95E+00	5.14E+00
1.26E-03	5.07E+00	8.88E+00	3.66E+00	5.01E+00	2.95E+00	5.15E+00
1.00E-03	5.13E+00	9.03E+00	3.68E+00	5.09E+00	2.97E+00	5.16E+00
7.94E-04	5.13E+00	9.04E+00	3.68E+00	5.09E+00	2.97E+00	5.17E+00
6.31E-04	5.13E+00	9.04E+00	3.68E+00	5.09E+00	2.97E+00	5.17E+00
5.01E-04	5.14E+00	9.05E+00	3.68E+00	5.10E+00	2.97E+00	5.17E+00
3.98E-04	5.14E+00	9.05E+00	3.68E+00	5.11E+00	2.97E+00	5.17E+00
3.16E-04	5.14E+00	9.05E+00	3.68E+00	5.11E+00	2.97E+00	5.17E+00
2.51E-04	5.14E+00	9.05E+00	3.68E+00	5.11E+00	2.97E+00	5.17E+00
2.00E-04	5.17E+00	9.10E+00	3.68E+00	5.12E+00	3.06E+00	5.17E+00
OPERATION TIME (MIN)	197146	41626	44640	43200	44640	23040

TABLE 49. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 10-GAGE
(26.9-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
2.51E+00	1.02E-03	4.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.99E+00	4.06E-03	4.82E-03	4.48E-03	0.00E+00	8.96E-03	0.00E+00
1.58E+00	2.54E-02	2.41E-02	2.24E-02	1.85E-02	4.93E-02	0.00E+00
1.26E+00	6.19E-02	6.27E-02	7.17E-02	3.70E-02	1.08E-01	0.00E+00
1.00E+00	1.25E-01	1.01E-01	1.79E-01	1.06E-01	1.70E-01	8.68E-03
7.94E-01	2.09E-01	1.59E-01	2.91E-01	1.67E-01	2.96E-01	5.21E-02
6.31E-01	3.10E-01	2.55E-01	3.94E-01	2.18E-01	4.35E-01	1.74E-01
5.01E-01	4.12E-01	3.47E-01	4.70E-01	3.29E-01	5.56E-01	2.95E-01
3.98E-01	5.34E-01	4.24E-01	6.27E-01	4.12E-01	6.54E-01	5.47E-01
3.16E-01	6.65E-01	5.98E-01	7.48E-01	4.58E-01	7.89E-01	7.73E-01
2.51E-01	8.37E-01	8.34E-01	9.32E-01	5.56E-01	9.14E-01	1.03E+00
1.99E-01	1.05E+00	1.20E+00	1.14E+00	7.08E-01	1.03E+00	1.28E+00
1.58E-01	1.32E+00	1.66E+00	1.36E+00	9.21E-01	1.15E+00	1.70E+00
1.26E-01	1.63E+00	2.20E+00	1.58E+00	1.23E+00	1.28E+00	2.17E+00
1.00E-01	1.98E+00	2.69E+00	1.92E+00	1.67E+00	1.43E+00	2.45E+00
7.94E-02	2.35E+00	3.27E+00	2.22E+00	2.25E+00	1.55E+00	2.71E+00
6.31E-02	2.71E+00	3.79E+00	2.60E+00	2.62E+00	1.70E+00	3.06E+00
5.01E-02	3.10E+00	4.22E+00	2.88E+00	3.24E+00	1.89E+00	3.56E+00
3.98E-02	3.45E+00	4.65E+00	3.13E+00	3.66E+00	2.11E+00	4.15E+00
3.16E-02	3.81E+00	5.10E+00	3.38E+00	4.10E+00	2.31E+00	4.67E+00
2.51E-02	4.14E+00	5.63E+00	3.62E+00	4.48E+00	2.45E+00	5.06E+00
1.99E-02	4.39E+00	6.09E+00	3.71E+00	4.68E+00	2.70E+00	5.35E+00
1.58E-02	4.62E+00	6.53E+00	3.85E+00	4.91E+00	2.85E+00	5.58E+00
1.26E-02	4.85E+00	7.21E+00	3.95E+00	5.04E+00	2.94E+00	5.65E+00
1.00E-02	5.01E+00	7.72E+00	4.00E+00	5.10E+00	3.06E+00	5.74E+00
7.94E-03	5.12E+00	7.89E+00	4.05E+00	5.25E+00	3.14E+00	5.80E+00
6.31E-03	5.21E+00	8.07E+00	4.11E+00	5.38E+00	3.19E+00	5.84E+00
5.01E-03	5.30E+00	8.32E+00	4.16E+00	5.44E+00	3.21E+00	5.89E+00
3.98E-03	5.40E+00	8.57E+00	4.17E+00	5.51E+00	3.25E+00	6.02E+00
3.16E-03	5.46E+00	8.72E+00	4.24E+00	5.52E+00	3.30E+00	6.04E+00
2.51E-03	5.51E+00	8.86E+00	4.27E+00	5.56E+00	3.31E+00	6.04E+00
2.00E-03	5.59E+00	9.17E+00	4.28E+00	5.59E+00	3.33E+00	6.05E+00
1.58E-03	5.60E+00	9.19E+00	4.29E+00	5.61E+00	3.33E+00	6.05E+00
1.26E-03	5.62E+00	9.26E+00	4.29E+00	5.62E+00	3.33E+00	6.06E+00
1.00E-03	5.65E+00	9.31E+00	4.30E+00	5.69E+00	3.35E+00	6.07E+00
7.94E-04	5.66E+00	9.33E+00	4.30E+00	5.71E+00	3.36E+00	6.08E+00
6.31E-04	5.66E+00	9.33E+00	4.30E+00	5.71E+00	3.36E+00	6.08E+00
5.01E-04	5.66E+00	9.33E+00	4.31E+00	5.72E+00	3.36E+00	6.08E+00
3.98E-04	5.67E+00	9.33E+00	4.31E+00	5.73E+00	3.36E+00	6.08E+00
3.16E-04	5.67E+00	9.33E+00	4.31E+00	5.73E+00	3.36E+00	6.08E+00
2.51E-04	5.67E+00	9.33E+00	4.31E+00	5.73E+00	3.36E+00	6.08E+00
2.00E-04	5.70E+00	9.38E+00	4.31E+00	5.73E+00	3.45E+00	6.08E+00
OPERATION TIME (MIN)	197010	41490	44640	43200	44640	23040

TABLE 50. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 12-GAGE
(33.2-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
2.51E+00	1.02E-03	4.83E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.99E+00	5.08E-03	4.83E-03	4.48E-03	4.63E-03	8.96E-03	0.00E+00
1.58E+00	2.94E-02	2.41E-02	2.69E-02	2.31E-02	5.82E-02	0.00E+00
1.26E+00	7.51E-02	7.24E-02	9.41E-02	5.09E-02	1.21E-01	0.00E+00
1.00E+00	1.48E-01	1.40E-01	2.02E-01	1.30E-01	1.93E-01	8.68E-03
7.94E-01	2.50E-01	2.08E-01	3.27E-01	2.08E-01	3.54E-01	5.21E-02
6.31E-01	3.72E-01	3.48E-01	4.26E-01	2.87E-01	5.02E-01	2.17E-01
5.01E-01	5.09E-01	4.97E-01	5.20E-01	4.54E-01	6.36E-01	3.65E-01
3.98E-01	6.61E-01	6.23E-01	7.03E-01	6.02E-01	7.35E-01	6.16E-01
3.16E-01	8.25E-01	8.26E-01	8.65E-01	7.04E-01	8.92E-01	8.42E-01
2.51E-01	1.01E+00	1.06E+00	1.10E+00	8.15E-01	1.04E+00	1.10E+00
1.99E-01	1.23E+00	1.36E+00	1.33E+00	1.00E+00	1.17E+00	1.36E+00
1.58E-01	1.53E+00	1.82E+00	1.59E+00	1.28E+00	1.33E+00	1.78E+00
1.26E-01	1.87E+00	2.38E+00	1.83E+00	1.60E+00	1.47E+00	2.31E+00
1.00E-01	2.25E+00	2.92E+00	2.23E+00	2.06E+00	1.65E+00	2.60E+00
7.94E-02	2.66E+00	3.49E+00	2.57E+00	2.68E+00	1.82E+00	2.96E+00
6.31E-02	3.08E+00	4.06E+00	2.97E+00	3.18E+00	1.99E+00	3.49E+00
5.01E-02	3.54E+00	4.54E+00	3.29E+00	3.87E+00	2.21E+00	4.16E+00
3.98E-02	3.91E+00	4.95E+00	3.57E+00	4.28E+00	2.46E+00	4.84E+00
3.16E-02	4.32E+00	5.43E+00	3.86E+00	4.77E+00	2.69E+00	5.52E+00
2.51E-02	4.68E+00	5.92E+00	4.22E+00	5.10E+00	2.86E+00	6.06E+00
1.99E-02	4.98E+00	6.36E+00	4.36E+00	5.34E+00	3.16E+00	6.53E+00
1.58E-02	5.25E+00	6.92E+00	4.47E+00	5.61E+00	3.31E+00	6.87E+00
1.26E-02	5.48E+00	7.57E+00	4.58E+00	5.74E+00	3.39E+00	7.00E+00
1.00E-02	5.68E+00	8.14E+00	4.73E+00	5.81E+00	3.47E+00	7.10E+00
7.94E-03	5.81E+00	8.38E+00	4.78E+00	5.96E+00	3.55E+00	7.24E+00
6.31E-03	5.92E+00	8.57E+00	4.88E+00	6.06E+00	3.63E+00	7.30E+00
5.01E-03	6.00E+00	8.82E+00	4.93E+00	6.08E+00	3.66E+00	7.39E+00
3.98E-03	6.11E+00	9.03E+00	5.01E+00	6.16E+00	3.71E+00	7.53E+00
3.16E-03	6.18E+00	9.22E+00	5.07E+00	6.17E+00	3.75E+00	7.53E+00
2.51E-03	6.23E+00	9.38E+00	5.10E+00	6.21E+00	3.78E+00	7.55E+00
2.00E-03	6.31E+00	9.63E+00	5.12E+00	6.25E+00	3.86E+00	7.57E+00
1.58E-03	6.32E+00	9.64E+00	5.13E+00	6.26E+00	3.86E+00	7.58E+00
1.26E-03	6.35E+00	9.71E+00	5.13E+00	6.27E+00	3.88E+00	7.59E+00
1.00E-03	6.38E+00	9.74E+00	5.14E+00	6.35E+00	3.90E+00	7.60E+00
7.94E-04	6.38E+00	9.74E+00	5.14E+00	6.35E+00	3.90E+00	7.60E+00
6.31E-04	6.38E+00	9.74E+00	5.14E+00	6.35E+00	3.90E+00	7.60E+00
5.01E-04	6.38E+00	9.74E+00	5.14E+00	6.36E+00	3.90E+00	7.62E+00
3.98E-04	6.39E+00	9.74E+00	5.15E+00	6.37E+00	3.90E+00	7.62E+00
3.16E-04	6.39E+00	9.74E+00	5.15E+00	6.37E+00	3.90E+00	7.62E+00
2.51E-04	6.39E+00	9.74E+00	5.15E+00	6.37E+00	3.90E+00	7.62E+00
2.00E-04	6.42E+00	9.80E+00	5.15E+00	6.37E+00	3.99E+00	7.62E+00
OPERATION TIME (MIN)	196946	41426	44640	43200	44640	23040

TABLE 51. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 14-GAGE
(39.2-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
2.51E+00	4.06E-03	4.83E-03	4.48E-03	9.26E-03	0.00E+00	0.00E+00
1.99E+00	9.14E-03	4.83E-03	8.96E-03	1.85E-02	8.96E-03	0.00E+00
1.58E+00	4.37E-02	2.90E-02	4.48E-02	4.63E-02	7.62E-02	0.00E+00
1.26E+00	1.04E-01	8.22E-02	1.34E-01	9.72E-02	1.52E-01	0.00E+00
1.00E+00	1.92E-01	1.55E-01	2.46E-01	2.13E-01	2.46E-01	8.68E-03
7.94E-01	3.15E-01	2.27E-01	4.12E-01	3.33E-01	4.17E-01	5.21E-02
6.31E-01	4.63E-01	3.91E-01	5.29E-01	4.58E-01	5.96E-01	2.17E-01
5.01E-01	6.26E-01	5.65E-01	6.41E-01	6.90E-01	7.39E-01	3.65E-01
3.98E-01	7.85E-01	6.91E-01	8.56E-01	8.38E-01	8.38E-01	6.16E-01
3.16E-01	9.65E-01	9.38E-01	1.02E+00	9.68E-01	9.99E-01	8.42E-01
2.51E-01	1.17E+00	1.16E+00	1.28E+00	1.11E+00	1.16E+00	1.10E+00
1.99E-01	1.41E+00	1.50E+00	1.53E+00	1.33E+00	1.29E+00	1.37E+00
1.58E-01	1.73E+00	1.96E+00	1.82E+00	1.63E+00	1.47E+00	1.82E+00
1.26E-01	2.10E+00	2.55E+00	2.08E+00	2.00E+00	1.64E+00	2.41E+00
1.00E-01	2.49E+00	3.09E+00	2.50E+00	2.52E+00	1.83E+00	2.66E+00
7.94E-02	2.94E+00	3.64E+00	2.88E+00	3.19E+00	2.01E+00	3.11E+00
6.31E-02	3.42E+00	4.24E+00	3.31E+00	3.74E+00	2.21E+00	3.88E+00
5.01E-02	3.89E+00	4.77E+00	3.63E+00	4.40E+00	2.45E+00	4.67E+00
3.98E-02	4.31E+00	5.18E+00	4.04E+00	4.80E+00	2.72E+00	5.48E+00
3.16E-02	4.76E+00	5.74E+00	4.42E+00	5.23E+00	3.00E+00	6.15E+00
2.51E-02	5.14E+00	6.30E+00	4.82E+00	5.60E+00	3.15E+00	6.70E+00
1.99E-02	5.44E+00	6.78E+00	4.95E+00	5.81E+00	3.40E+00	7.19E+00
1.58E-02	5.72E+00	7.38E+00	5.06E+00	6.12E+00	3.53E+00	7.51E+00
1.26E-02	5.96E+00	8.08E+00	5.19E+00	6.24E+00	3.62E+00	7.62E+00
1.00E-02	6.15E+00	8.72E+00	5.26E+00	6.30E+00	3.68E+00	7.73E+00
7.94E-03	6.29E+00	9.01E+00	5.34E+00	6.43E+00	3.76E+00	7.83E+00
6.31E-03	6.39E+00	9.16E+00	5.47E+00	6.52E+00	3.82E+00	7.94E+00
5.01E-03	6.50E+00	9.39E+00	5.60E+00	6.54E+00	3.87E+00	8.05E+00
3.98E-03	6.60E+00	9.63E+00	5.60E+00	6.62E+00	3.93E+00	8.24E+00
3.16E-03	6.67E+00	9.80E+00	5.67E+00	6.62E+00	3.99E+00	8.26E+00
2.51E-03	6.73E+00	9.94E+00	5.71E+00	6.67E+00	4.05E+00	8.26E+00
2.00E-03	6.81E+00	1.02E+01	5.73E+00	6.71E+00	4.08E+00	8.29E+00
1.58E-03	6.82E+00	1.02E+01	5.74E+00	6.73E+00	4.08E+00	8.29E+00
1.26E-03	6.84E+00	1.03E+01	5.74E+00	6.74E+00	4.08E+00	8.30E+00
1.00E-03	6.87E+00	1.03E+01	5.75E+00	6.81E+00	4.09E+00	8.30E+00
7.94E-04	6.87E+00	1.03E+01	5.75E+00	6.81E+00	4.09E+00	8.31E+00
6.31E-04	6.87E+00	1.03E+01	5.75E+00	6.81E+00	4.09E+00	8.31E+00
5.01E-04	6.87E+00	1.03E+01	5.76E+00	6.82E+00	4.09E+00	8.32E+00
3.98E-04	6.88E+00	1.03E+01	5.77E+00	6.83E+00	4.10E+00	8.33E+00
3.16E-04	6.88E+00	1.03E+01	5.77E+00	6.83E+00	4.10E+00	8.33E+00
2.51E-04	6.88E+00	1.03E+01	5.77E+00	6.83E+00	4.10E+00	8.33E+00
2.00E-04	6.91E+00	1.04E+01	5.77E+00	6.84E+00	4.19E+00	8.33E+00
OPERATION TIME (MIN)	196906	41386	44640	43200	44640	23040

TABLE 52. A SUMMARY OF THE FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR VARIOUS LENGTHS OF NORTH-SOUTH LINES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD							
	14-GAGE	12-GAGE	10-GAGE	8-GAGE	6-GAGE	4-GAGE	2-GAGE	1-GAGE
3.16E+00	3.05E-03	3.04E-03	3.04E-03	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.51E+00	8.13E-03	7.10E-03	7.10E-03	4.05E-03	1.01E-03	0.00E+00	0.00E+00	0.00E+00
1.99E+00	2.54E-02	1.93E-02	1.82E-02	1.32E-02	6.08E-03	2.02E-03	0.00E+00	0.00E+00
1.58E+00	5.79E-02	4.57E-02	4.06E-02	2.84E-02	1.82E-02	8.07E-03	1.01E-03	0.00E+00
1.26E+00	1.20E-01	9.84E-02	8.82E-02	6.79E-02	3.95E-02	2.02E-02	7.05E-03	3.03E-03
1.00E+00	2.09E-01	1.69E-01	1.48E-01	1.23E-01	7.80E-02	4.64E-02	2.11E-02	1.01E-02
7.94E-01	3.35E-01	2.65E-01	2.29E-01	1.93E-01	1.34E-01	7.87E-02	3.22E-02	2.02E-02
6.31E-01	4.71E-01	3.83E-01	3.32E-01	2.71E-01	1.92E-01	1.24E-01	6.14E-02	4.04E-02
5.01E-01	6.12E-01	5.07E-01	4.39E-01	3.71E-01	2.60E-01	1.79E-01	9.26E-02	6.57E-02
3.98E-01	7.56E-01	6.34E-01	5.49E-01	4.65E-01	3.34E-01	2.24E-01	1.24E-01	8.69E-02
3.16E-01	9.46E-01	7.85E-01	6.90E-01	5.86E-01	4.14E-01	2.80E-01	1.49E-01	1.10E-01
2.51E-01	1.14E+00	9.63E-01	8.46E-01	7.12E-01	5.15E-01	3.47E-01	1.90E-01	1.33E-01
1.99E-01	1.42E+00	1.22E+00	1.07E+00	8.97E-01	6.64E-01	4.46E-01	2.53E-01	1.74E-01
1.58E-01	1.75E+00	1.54E+00	1.36E+00	1.14E+00	8.65E-01	5.91E-01	3.32E-01	2.29E-01
1.26E-01	2.18E+00	1.92E+00	1.71E+00	1.45E+00	1.13E+00	8.18E-01	5.02E-01	3.56E-01
1.00E-01	2.66E+00	2.38E+00	2.14E+00	1.84E+00	1.47E+00	1.09E+00	6.89E-01	5.13E-01
7.94E-02	3.13E+00	2.81E+00	2.53E+00	2.21E+00	1.78E+00	1.38E+00	9.36E-01	7.37E-01
6.31E-02	3.62E+00	3.31E+00	3.02E+00	2.64E+00	2.18E+00	1.72E+00	1.17E+00	9.20E-01
5.01E-02	4.09E+00	3.74E+00	3.42E+00	3.03E+00	2.57E+00	2.04E+00	1.45E+00	1.15E+00
3.98E-02	4.53E+00	4.16E+00	3.80E+00	3.41E+00	2.92E+00	2.37E+00	1.74E+00	1.38E+00
3.16E-02	4.94E+00	4.54E+00	4.15E+00	3.73E+00	3.24E+00	2.66E+00	2.00E+00	1.58E+00
2.51E-02	5.33E+00	4.87E+00	4.44E+00	4.06E+00	3.54E+00	2.96E+00	2.23E+00	1.82E+00
1.99E-02	5.65E+00	5.19E+00	4.75E+00	4.35E+00	3.81E+00	3.25E+00	2.48E+00	2.04E+00
1.58E-02	5.98E+00	5.49E+00	5.02E+00	4.62E+00	4.03E+00	3.47E+00	2.66E+00	2.22E+00
1.26E-02	6.27E+00	5.74E+00	5.24E+00	4.79E+00	4.25E+00	3.69E+00	2.82E+00	2.42E+00
1.00E-02	6.51E+00	5.95E+00	5.42E+00	4.97E+00	4.43E+00	3.85E+00	2.94E+00	2.56E+00
7.94E-03	6.66E+00	6.12E+00	5.56E+00	5.11E+00	4.56E+00	3.98E+00	3.04E+00	2.67E+00
6.31E-03	6.78E+00	6.23E+00	5.67E+00	5.21E+00	4.66E+00	4.04E+00	3.11E+00	2.80E+00
5.01E-03	6.90E+00	6.35E+00	5.77E+00	5.31E+00	4.75E+00	4.16E+00	3.18E+00	2.87E+00
3.98E-03	7.01E+00	6.48E+00	5.89E+00	5.42E+00	4.85E+00	4.24E+00	3.25E+00	2.96E+00
3.16E-03	7.09E+00	6.59E+00	6.01E+00	5.53E+00	4.94E+00	4.33E+00	3.32E+00	3.04E+00
2.51E-03	7.20E+00	6.69E+00	6.13E+00	5.64E+00	5.06E+00	4.46E+00	3.36E+00	3.09E+00
2.00E-03	7.26E+00	6.76E+00	6.16E+00	5.71E+00	5.15E+00	4.52E+00	3.39E+00	3.12E+00
1.58E-03	7.29E+00	6.78E+00	6.18E+00	5.72E+00	5.16E+00	4.52E+00	3.39E+00	3.13E+00
1.26E-03	7.31E+00	6.80E+00	6.20E+00	5.74E+00	5.18E+00	4.55E+00	3.41E+00	3.14E+00
1.00E-03	7.37E+00	6.86E+00	6.23E+00	5.77E+00	5.21E+00	4.57E+00	3.42E+00	3.16E+00
7.94E-04	7.38E+00	6.86E+00	6.24E+00	5.78E+00	5.22E+00	4.58E+00	3.43E+00	3.16E+00
6.31E-04	7.38E+00	6.86E+00	6.24E+00	5.78E+00	5.22E+00	4.58E+00	3.43E+00	3.16E+00
5.01E-04	7.38E+00	6.86E+00	6.24E+00	5.79E+00	5.23E+00	4.59E+00	3.45E+00	3.19E+00
3.98E-04	7.40E+00	6.89E+00	6.28E+00	5.81E+00	5.25E+00	4.60E+00	3.45E+00	3.19E+00
3.16E-04	7.40E+00	6.89E+00	6.28E+00	5.81E+00	5.25E+00	4.60E+00	3.45E+00	3.19E+00
2.51E-04	7.40E+00	6.89E+00	6.28E+00	5.81E+00	5.25E+00	4.60E+00	3.45E+00	3.19E+00
2.00E-04	7.41E+00	6.89E+00	6.28E+00	5.82E+00	5.25E+00	4.61E+00	3.46E+00	3.21E+00
OPERATION TIME (MIN)	196760	197118	197284	197292	197492	198244	198720	197830

TABLE 53. A SUMMARY OF THE FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR VARIOUS LENGTHS OF EAST-WEST LINES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD							
	14-GAGE	12-GAGE	10-GAGE	8-GAGE	6-GAGE	4-GAGE	2-GAGE	1-GAGE
2.51E+00	4.06E-03	1.02E-03	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.99E+00	9.14E-03	5.08E-03	4.06E-03	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.58E+00	4.37E-02	2.94E-02	2.54E-02	1.42E-02	1.01E-02	5.05E-03	2.01E-03	0.00E+00
1.26E+00	1.04E-01	7.51E-02	6.19E-02	4.77E-02	2.63E-02	1.51E-02	7.05E-03	3.03E-03
1.00E+00	1.92E-01	1.48E-01	1.25E-01	1.01E-01	6.59E-02	3.84E-02	1.81E-02	1.01E-02
7.94E-01	3.15E-01	2.50E-01	2.09E-01	1.77E-01	1.28E-01	7.67E-02	3.82E-02	2.02E-02
6.31E-01	4.63E-01	3.72E-01	3.10E-01	2.62E-01	1.93E-01	1.19E-01	6.74E-02	4.04E-02
5.01E-01	6.26E-01	5.09E-01	4.12E-01	3.48E-01	2.58E-01	1.71E-01	1.01E-01	6.57E-02
3.98E-01	7.85E-01	6.61E-01	5.34E-01	4.49E-01	3.31E-01	2.26E-01	1.26E-01	8.69E-02
3.16E-01	9.65E-01	8.25E-01	6.65E-01	5.55E-01	4.25E-01	2.92E-01	1.53E-01	1.10E-01
2.51E-01	1.17E+00	1.01E+00	8.37E-01	7.01E-01	5.43E-01	3.85E-01	2.06E-01	1.33E-01
1.99E-01	1.41E+00	1.23E+00	1.05E+00	8.72E-01	6.74E-01	4.80E-01	2.67E-01	1.74E-01
1.58E-01	1.73E+00	1.53E+00	1.32E+00	1.12E+00	8.67E-01	6.17E-01	3.37E-01	2.29E-01
1.26E-01	2.10E+00	1.87E+00	1.63E+00	1.40E+00	1.13E+00	8.50E-01	4.92E-01	3.56E-01
1.00E-01	2.49E+00	2.25E+00	1.98E+00	1.72E+00	1.44E+00	1.12E+00	7.19E-01	5.13E-01
7.94E-02	2.94E+00	2.66E+00	2.35E+00	2.08E+00	1.76E+00	1.42E+00	9.83E-01	7.37E-01
6.31E-02	3.42E+00	3.08E+00	2.71E+00	2.41E+00	2.08E+00	1.69E+00	1.19E+00	9.20E-01
5.01E-02	3.89E+00	3.54E+00	3.10E+00	2.74E+00	2.39E+00	2.00E+00	1.45E+00	1.15E+00
3.98E-02	4.31E+00	3.91E+00	3.45E+00	3.04E+00	2.68E+00	2.28E+00	1.67E+00	1.38E+00
3.16E-02	4.76E+00	4.32E+00	3.81E+00	3.37E+00	2.99E+00	2.59E+00	1.91E+00	1.58E+00
2.51E-02	5.14E+00	4.68E+00	4.14E+00	3.65E+00	3.23E+00	2.84E+00	2.14E+00	1.82E+00
1.99E-02	5.44E+00	4.98E+00	4.39E+00	3.89E+00	3.42E+00	3.01E+00	2.29E+00	2.04E+00
1.58E-02	5.72E+00	5.25E+00	4.62E+00	4.11E+00	3.63E+00	3.21E+00	2.47E+00	2.22E+00
1.26E-02	5.96E+00	5.48E+00	4.85E+00	4.36E+00	3.87E+00	3.42E+00	2.65E+00	2.42E+00
1.00E-02	6.15E+00	5.68E+00	5.01E+00	4.53E+00	4.02E+00	3.57E+00	2.80E+00	2.56E+00
7.94E-03	6.29E+00	5.81E+00	5.12E+00	4.61E+00	4.10E+00	3.67E+00	2.87E+00	2.67E+00
6.31E-03	6.39E+00	5.92E+00	5.21E+00	4.69E+00	4.18E+00	3.74E+00	2.97E+00	2.80E+00
5.01E-03	6.50E+00	6.00E+00	5.30E+00	4.79E+00	4.25E+00	3.82E+00	3.04E+00	2.87E+00
3.98E-03	6.60E+00	6.11E+00	5.40E+00	4.87E+00	4.32E+00	3.90E+00	3.12E+00	2.96E+00
3.16E-03	6.67E+00	6.18E+00	5.46E+00	4.92E+00	4.37E+00	3.95E+00	3.19E+00	3.04E+00
2.51E-03	6.73E+00	6.23E+00	5.51E+00	4.97E+00	4.41E+00	4.01E+00	3.24E+00	3.09E+00
2.00E-03	6.81E+00	6.31E+00	5.59E+00	5.04E+00	4.43E+00	4.04E+00	3.26E+00	3.12E+00
1.58E-03	6.82E+00	6.32E+00	5.60E+00	5.05E+00	4.44E+00	4.06E+00	3.27E+00	3.13E+00
1.26E-03	6.84E+00	6.35E+00	5.62E+00	5.07E+00	4.46E+00	4.07E+00	3.29E+00	3.14E+00
1.00E-03	6.87E+00	6.38E+00	5.65E+00	5.13E+00	4.51E+00	4.10E+00	3.30E+00	3.16E+00
7.94E-04	6.87E+00	6.38E+00	5.66E+00	5.13E+00	4.52E+00	4.10E+00	3.31E+00	3.16E+00
6.31E-04	6.87E+00	6.38E+00	5.66E+00	5.14E+00	4.52E+00	4.12E+00	3.33E+00	3.19E+00
5.01E-04	6.88E+00	6.39E+00	5.67E+00	5.14E+00	4.52E+00	4.12E+00	3.33E+00	3.19E+00
3.98E-04	6.88E+00	6.39E+00	5.67E+00	5.14E+00	4.52E+00	4.12E+00	3.33E+00	3.19E+00
3.16E-04	6.88E+00	6.39E+00	5.67E+00	5.14E+00	4.52E+00	4.12E+00	3.33E+00	3.19E+00
2.51E-04	6.88E+00	6.39E+00	5.67E+00	5.14E+00	4.52E+00	4.12E+00	3.33E+00	3.19E+00
2.00E-04	6.91E+00	6.42E+00	5.70E+00	5.17E+00	4.55E+00	4.18E+00	3.37E+00	3.21E+00
OPERATION TIME (MIN)	196906	196946	197010	197146	197372	198090	198720	197830

[illegible]

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD						
	0.25-MIN	0.5-MIN	1-MIN	2-MIN	4-MIN	8-MIN	16-MIN
5.01E+00	6.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.98E+00	6.79E-04	6.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.16E+00	1.36E-03	6.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.51E+00	1.70E-03	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.00E+00	4.07E-03	3.39E-03	2.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.58E+00	1.43E-02	1.56E-02	1.22E-02	1.09E-02	5.43E-03	0.00E+00	0.00E+00
1.26E+00	3.87E-02	3.87E-02	4.07E-02	4.35E-02	2.72E-02	1.09E-02	0.00E+00
1.00E+00	5.91E-02	5.84E-02	5.84E-02	5.70E-02	4.89E-02	4.35E-02	2.17E-02
7.94E-01	8.25E-02	8.35E-02	8.01E-02	7.88E-02	7.60E-02	5.43E-02	4.35E-02
6.31E-01	1.19E-01	1.20E-01	1.26E-01	1.25E-01	1.30E-01	8.69E-02	6.52E-02
5.01E-01	1.80E-01	1.82E-01	1.81E-01	1.77E-01	1.96E-01	1.96E-01	1.74E-01
3.98E-01	2.45E-01	2.46E-01	2.54E-01	2.53E-01	2.72E-01	2.72E-01	2.17E-01
3.16E-01	3.15E-01	3.15E-01	3.19E-01	3.18E-01	3.20E-01	3.37E-01	3.48E-01
2.51E-01	3.86E-01	3.84E-01	3.95E-01	4.05E-01	3.86E-01	4.35E-01	4.56E-01
2.00E-01	4.54E-01	4.56E-01	4.59E-01	4.67E-01	4.83E-01	5.11E-01	5.87E-01
1.58E-01	5.61E-01	5.61E-01	5.61E-01	5.84E-01	5.97E-01	6.30E-01	7.17E-01
1.26E-01	6.72E-01	6.79E-01	6.82E-01	6.84E-01	7.06E-01	7.50E-01	8.26E-01
1.00E-01	7.72E-01	7.76E-01	7.78E-01	7.63E-01	8.09E-01	8.36E-01	9.12E-01
7.94E-02	8.99E-01	9.00E-01	9.08E-01	9.23E-01	9.29E-01	9.56E-01	1.02E+00
6.31E-02	1.07E+00	1.07E+00	1.07E+00	1.09E+00	1.06E+00	1.11E+00	1.11E+00
5.01E-02	1.25E+00	1.25E+00	1.26E+00	1.28E+00	1.25E+00	1.34E+00	1.33E+00
3.98E-02	1.46E+00	1.46E+00	1.47E+00	1.49E+00	1.49E+00	1.53E+00	1.46E+00
3.16E-02	1.66E+00	1.66E+00	1.68E+00	1.71E+00	1.75E+00	1.74E+00	1.80E+00
2.51E-02	1.84E+00	1.84E+00	1.86E+00	1.89E+00	1.94E+00	1.90E+00	2.04E+00
2.00E-02	2.03E+00	2.04E+00	2.05E+00	2.07E+00	2.15E+00	2.13E+00	2.11E+00
1.58E-02	2.24E+00	2.25E+00	2.25E+00	2.28E+00	2.35E+00	2.49E+00	2.43E+00
1.26E-02	2.36E+00	2.37E+00	2.39E+00	2.43E+00	2.49E+00	2.65E+00	2.82E+00
1.00E-02	2.54E+00	2.55E+00	2.58E+00	2.62E+00	2.66E+00	2.89E+00	3.02E+00
7.94E-03	2.61E+00	2.62E+00	2.65E+00	2.70E+00	2.78E+00	3.04E+00	3.32E+00
6.31E-03	2.69E+00	2.70E+00	2.74E+00	2.77E+00	2.85E+00	3.10E+00	3.43E+00
5.01E-03	2.72E+00	2.73E+00	2.76E+00	2.81E+00	2.89E+00	3.12E+00	3.56E+00
4.20E-03	2.73E+00	2.74E+00	2.76E+00	2.82E+00	2.92E+00	3.17E+00	3.67E+00

OPERATION	73647	73647	73647	73647	73647	73647	73647
TIME (MIN)							

TABLE 56. CONDITIONAL FREQUENCIES OF DURATIONS OF VARIOUS PRECIPITATION RATES
 FOR ABOUT ONE YEAR OF DATA FROM MIAMI, FLORIDA

[illegible]

TABLE 57. CONDITIONAL FREQUENCIES OF DURATIONS OF VARIOUS PRECIPITATION RATES
 FOR ABOUT ONE YEAR OF DATA FROM ISLAND BEACH, NEW JERSEY

[illegible]

TABLE 58. CONDITIONAL FREQUENCIES OF DURATIONS OF VARIOUS PRECIPITATION RATES
 FOR ABOUT ONE YEAR OF DATA FROM MAJURO ATOLL

[illegible]

TABLE 59. CONDITIONAL FREQUENCIES OF DURATIONS OF VARIOUS PRECIPITATION RATES
FOR ABOUT ONE YEAR OF DATA FROM NEAR FRANKLIN, NORTH CAROLINA

[illegible]

TABLE 60. CONDITIONAL FREQUENCIES OF DURATIONS OF VARIOUS PRECIPITATION RATES
FOR THREE YEARS OF DATA FROM URBANA, ILLINOIS

[illegible]

Unclassified

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13. ABSTRACT <p>Nearly instantaneous precipitation rates have been calculated for existing data from several locations and for records collected specifically for this project. Point frequencies of occurrence of 1-minute rates have been derived and are tabulated by months for one year of data from Preston and Reading, England; for two years of data from Paris, France; and for three years of data from Urbana, Illinois. Frequencies of 4-minute rates are tabulated for a year of data each from Albuquerque, New Mexico; Bismarck, North Dakota; Seattle, Washington; Bet Dagan, Israel; Koblenz, Germany; and Freiburg, Germany. Four-minute frequencies for two years of data from Naha, Okinawa, are tabulated.</p> <p>Frequencies of 2-minute average rates along lines have been tabulated for lines of raingages up to 39 miles in length in central Illinois. The frequencies of occurrence of maximum rates along these lines are also included.</p> <p>Tables showing probabilities of duration of various precipitation rates are presented for five locations.</p> <p>Tables showing the effects of the length of the period of measurement on the rate frequencies in Florida and Illinois are also included.</p>		

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	ROLE	WT	ROLE	WT	ROLE	WT
Instantaneous rainfall rates Precipitation rates Precipitation probabilities Rainfall						

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